THE FIELD MUSEUM
2011 ANNUAL REPORT TO THE BOARD OF TRUSTEES

COLLECTIONS AND RESEARCH

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COLLECTIONS AND RESEARCH – 2011 ANNUAL REPORT

"Innovation" might not be the first word that springs to mind when people think of research at a natural history museum. With subjects like 60 million-year-old fossils and Bronze Age artifacts, and scientific disciplines traceable back through Darwin to Aristotle, our research might strike some as heavily weighted toward the "history" in natural history. Yet as I look back over a quarter century immersed in the science being conducted at The Field Museum I am struck by a feeling of having witnessed a surge in innovation in our research that is increasing the pace of scientific discovery by leaps and bounds. Much of this innovation has been the result of rapidly changing technologies, but we also see innovation in the application of new methods to approach enduring research questions.

Not surprisingly, an area that has seen some of the most dramatic advances is molecular systematics. The Field Museum has had a DNA lab since the 1970s, but the difference between today's techniques and those of even a decade ago are mind-boggling. Twenty years ago, sequencing involved radioactive dyes and x-ray photography to identify the nucleotides, resulting in a "gel" image used to analyze the sequence. It would take a skilled tech several days to generate between 12 and 24 samples and 350 to 400 base pairs per sample. Today, with automated sequencing a researcher in our Pritzker Lab can produce almost 10 times as many samples in about 10 hours. "Next-generation" sequencing technology is leading to a revolution in molecular studies by vastly increasing the amount of DNA information that can be generated—and with vastly reduced turnaround time and costs. Here at the Field, Associate Curator Rick Ree (Botany) and Assistant Curator Corrie Moreau (Zoology/Insects) are both exploiting this massive computational power. Rick is applying next-generation DNA sequencing technology to the study of plants. He just kicked off a $400,000 National Science Foundation project aimed at unraveling the evolutionary history of *Pedicularis*, one of the largest genera of flowering plants, with 770 species found in mountain ranges across the Northern Hemisphere. Since the mountain ranges where these plants occur are biodiversity hotspots, the documentation of the plants' evolutionary dynamics is critical to conservation planning.

Moving from plants to ants, Corrie is using "next gen" sequencing to explore the complex multitude of bacteria and other microbes that live inside ants ("microbiomes"). Corrie and her team have found that, like humans, ants have a diverse gut microbiome, and that these bacteria help the ants exploit low-nutrient food sources such as plant sap and honeydew from sap-feeding insects, and live in virtual "food deserts." Corrie and her students are also using next-generation sequencing to sequence seven genomes of plant-ants to investigate the evolution of mutualisms in ants. By looking across the genomes of mutualists (ants that live in symbiosis with particular plants and/or other insects), and generalists (those that can live in varied habitats and exploit a variety of resources), Corrie and her team hope to uncover the genes responsible for this complex behavior.

DNA barcoding is another rapidly developing trend in molecular systematics. Identification of organisms, especially in groups with subtle physical characteristics, requires highly skilled specialists, and the number of species in mega-diverse groups is so high that no single specialist can know all species in detail. The solution is "DNA barcodes," short fragments of a gene located in a standard position in the genome that facilitate rapid identification of species. With DNA barcoding, researchers sequence a large number of species to create a DNA barcode library, which can then be used to identify organisms. There is a global push to develop DNA barcodes for a wide variety of biological groups, and Thorsten Lumbsch (Associate Curator and

Chair, Botany) is on the forefront of “DNA barcoding” for lichens (composite organisms composed of a fungus and an algae or cyanobacteria). In 2011, with support from the Negaunee Foundation, Thorsten and a colleague from the Complutense University of Madrid developed a lichen barcode that was approved by the International Consortium for Barcode of Life, with results soon to be published in the *Proceedings of the National Academy of Sciences*.

Just as emerging tools and techniques unlock ever more mysteries at the molecular level, the new technologies are changing the way we analyze specimens at a more macro-level. For example, the use of Computed Tomography (CT) X-ray technology has revolutionized anatomical studies of living and extinct organisms, as well as facilitated unprecedented analysis of cultural objects. A CT scan takes a stack of X-ray “slices” through the thickness of the object under study, yielding very accurate three-dimensional images.

This past July, an Anthropology team led by Regenstein Conservator JP Brown and A. Watson Armour III Curator Bob Martin coordinated the scanning of several Egyptian and Peruvian mummies and other large objects. Thanks to Genesis Medical Imaging, a mobile medical CT scanner mounted in a specially adapted truck was brought to the Museum, and used for a pilot study to generate scans of specimens. In all, seven Egyptian mummies, three major Pacific pieces (including a seven foot, 220 lb. temple drum from the Marquesas Islands), and three Peruvian mummies were scanned as well as nine smaller, but nonetheless important, pieces from the Pacific, the Middle East, and Asia. The scans were imaged using two state-of-the-art 3-D rendering computers in the Anthropology Department’s Regenstein Laboratory. This detailed look inside these objects was impressive, and the story received wide press coverage (especially the mummy scans, of course); but the scientific potential of the technique for Anthropology goes well beyond a virtual “opening” of a mummy. Using this non-invasive means of studying internal structure, anthropologists can determine age, sex, dental condition, disease, trauma and perhaps the cause of death. The 3-D images obtained will also facilitate appropriate conservation of objects, and provide a means of ensuring that any future collection of small tissue samples for investigation of genetics, bone chemistry is minimally invasive.

CT scanning also provides for “virtual dissection” of biological specimens. Not long after the mummies were scanned, Associate Curator Peter Makovicky (Geology) and colleagues published a study in the journal *PLoS One* that applied CT technology and computer modeling to “weigh” five *T. rex* specimens, including Field Museum Geology specimen PR 2081 (also known as “Sue”). The study used precise laser scans of museum-mounted skeletons as templates for fleshed-out digital models whose masses could then be computed. (Sue’s skeleton was scanned by detectives of the Chicago Police Dept. using a forensic device, supplemented with CT scans of individual bones produced at Loyola University Medical Center and Ford Motor Co.). The laser scans are accurate to less then half an inch—fantastic resolution for skeletons that are 40 feet long. *T. rex* appears to have been significantly heavier than previously believed, with Sue estimated to weigh over nine tons. The new mass estimates alter previous understanding of *T. rex* biology. The higher masses found for the larger specimens and a lower one for the smallest individual indicate even faster growth than was proposed in a study five years ago—an estimated gain of 3,950 pounds a year during their teens. The rapid growth to gargantuan size came at the cost of speed and agility, because the torso became longer and heavier, while limbs grew relatively shorter and lighter, shifting the center of balance forward. Between these new tools and the world’s largest and most complete *T. rex* skeleton, we have learned more about the terror of the Cretaceous in the past five years than in the 100 years since it was first described.

Nothing conjures up the image of high-tech tools like lasers, and Curator of Zoology Mark Westneat and colleagues Luisa Marcelino and Vadim Backman from Northwestern University are using biophotonics techniques to study how corals handle sunlight. An array of photon detectors is being used to measure the back-scattering of light to determine the susceptibility of corals to coral bleaching, which occurs when a coral loses the ability to make energy from the sun, and often dies. The team analyzed coral skeletons in the Field's collections, including some displayed at the World's Colombian Exposition of 1893, and are also conducting light-scattering experiments on living corals in collaboration with the Shedd Aquarium. Early results of the research show that coral bleaching can be predicted from the way that the coral skeleton scatters light. Deeper understanding of this process will aid in reef conservation efforts.

So far we have seen research calling on cutting-edge technology to investigate organisms and objects from an "up close"—or even inside—view. For his part, Bill Parkinson (Associate Curator of Eurasian Anthropology) is approaching his Körös archaeological project in Hungary from a more distant perspective—the sky. This past year Bill received a grant from the European Facility for Airborne Research (EUFAR) to conduct aerial fly-overs to use LIDAR and hyperspectral remote sensing technology to collect data that will help him and his team model how early villages evolved on the Great Hungarian Plain nearly seven thousand years ago. LIDAR (Light Detection and Ranging) is akin to radar, but uses reflected light pulses to precisely determine the location and elevation of features on the earth's surface. Hyperspectral remote sensing uses spectrometric instruments to identify materials on and beneath the ground, from rock types, minerals, vegetation, man-made features, even plant species. In March, 2012, EUFAR will send an airplane equipped with several sensors over the project study area in the Körös Region to collect data that will permit Bill and his team to link the archaeological remains of ancient villages to remote sensing anomalies at several scales—from satellites to aerial flyovers to ground-based techniques. This technology allows very subtle buried features, such as ancient walls and ditches, to be detected from satellites. Bill's pioneering use of multiple levels of geophysical data—from ground-level to satellite—will allow him to reconstruct large-scale maps of ancient European villages.

But for innovative projects at The Field Museum, the sky is *not* the limit. Philipp Heck (Robert A. Pritzker Assistant Curator of Meteoritics and Polar Studies) is looking at the very edges of the cosmos through his NASA-funded project involving atom probe tomography of nanodiamonds from meteorites. Since 2009 Phil and his collaborators have been developing atom probe tomography, a novel analytical technique, to analyze nanodiamonds atom by atom to answer the two-decade-old question of whether these nanodiamonds have a presolar origin or originate from our solar system. Phil is also involved in analyzing the interstellar dust gathered by NASA's Stardust space mission, using the Field Museum's scanning electron microscope. Nearly every element that makes life possible, including carbon and oxygen, was formed by stars, and analyzing contemporary stardust will provide a unique opportunity to learn how such materials have evolved over geologic time, and ultimately understanding how life on earth, and the earth itself, came to be.

The foregoing examples represent just a few of the current innovative projects and techniques being utilized by the scientists in Collections and Research. In addition to innovative tools, we are seeing innovative applications, including several projects that have intriguing implications for human health. For example, the Emerging Pathogens Project, spearheaded at the Field by Shannon Hackett, Richard and Jill Chaifetz Associate Curator of Birds, is a unique research program focused on the evolution of species-switching parasites or pathogens that result in diseases such as bird flu, malaria, and AIDS; the project is merging the Field's robust research on biodiversity studies and evolution with the University of Chicago's systems biology and genomics programs. Then there's the groundbreaking work by Assistant Curator Leo Smith of Zoology/Fishes, whose studies on the evolution of venomous fishes has vastly increased the estimates of their diversity—from around 200 to more than 2,000 fish species—making fishes the most diverse group of venomous vertebrates on the planet; since animal venoms are a key source of bioactive compounds used in pharmaceuticals, the medicinal potential for this work is promising. Finally, Thorsten Lumbsch of Botany is in the planning stages of a project aimed at understanding the evolution of functional genes that are involved in the biosynthesis of aromatic molecules (PKS genes). While natural products from fungi are routinely scanned for pharmaceutical use, secondary metabolites from lichen-forming fungi (almost 1,000 of which are known), have not been studied in detail because lichens are slow growing and extremely difficult to cultivate. Thorsten's project aims at eventually developing to a culture-independent strategy for pharmaceutical exploitation of lichen products. While all of these projects are still in their early days, their potential applications for human health are promising.

Overall, the range of projects being pursued by this generation of Field Museum scientists is nothing less than amazing. And it is worth stressing the ways we are taking advantage of new avenues for communicating this important work to the public. Thanks to support from the Negaunee Foundation, last year C&R launched a video series called "The Field Revealed" that takes on-line visitors on an intimate journey behind the scenes of The Field Museum, showcasing the fantastic objects and stories in the collections and highlighting the work of our scientists. The series consists of weekly videos of maximum two minutes, accessible on the homepage of The Field Museum's website (http://fieldmuseum.org/explore/the-field-revealed) as well as on other science media platforms, e.g. NSF's Science360, Vimeo, and social networks. The series is produced by Federico Pardo, Science Media Producer for Collections and Research, who is charged with developing media initiatives that rely on new media technologies to expand the scientific outreach of the Museum's scientists. In addition to working closely with the scientists and collections staff, Federico collaborates with media producers outside the Field with an eye to expanding the visibility of the Museum, its research, and its collections. All of this is in addition to our ongoing "virtual field trips" site, *expeditions@fieldmuseum*, which is now a decade old and still going strong. It continues to rank as one of the Museum's most visited science microsites, and captures the largest visitorship on The Field Museum's YouTube channel. *Expeditions* is undergoing a facelift, to be unveiled in spring 2012; it will include a new landing page that allows users to select expeditions by topic, or browse videos, interactives, photo galleries, and Google Earth maps, as well as new main pages for each scientist allow users to more easily access and explore new content and design their own pathways of discovery.

The Museum's digital media team also worked closely with C&R scientists to develop a mobile app called "Specimania," a game in which players collect "cards" featuring notable specimens and artifacts (and associated "fun facts") from the Museum's collections. Players compete against themselves or other players, and there is also an easier "concentration"-style memory game for younger children. The media team and the curators worked for months to make sure the game was both fun and scientifically meaningful.

"The Field Revealed" and "Specimania" are the latest tools in our never-ending quest to bring the science behind the scenes to the public. Our 24-million-objects-strong collections, and the multitude of projects underway around every corner, are fascinating subjects for media and outreach, as are the many innovative methods and novel tech-based approaches recounted in the preceding pages. All of these studies are yielding dramatic new insights across the gamut of our scientific fields. Still, next-generation DNA sequencing and Hyperspectral remote sensing notwithstanding, many of the research questions would be familiar to our first curators, and even Darwin (and probably even Aristotle)—questions of origins, change, and causes. How are organisms related to each other on the tree of life? How did the people in a given society live, and interact? The answers to these questions not only satisfy our innate curiosity about our world and ourselves, they provide insights that are relevant to our existence, and the survival of our planet—baseline data for conserving biodiversity, evidence for the impact of climate change, compounds with medicinal potential, the dynamics of political change, the deep history of ethnic strife. Some of the tools have changed and allow us to arrive at increasingly precise answers, and often at a much faster rate—although let's be clear: we still use rock hammers, nets, plant presses, microscopes, pipettes, and Jeeps too. Old or new, all of these tools and techniques are in service to the same basic goal: exploring—and documenting, and understanding—the earth and its people.

Lance Grande

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DEPARTMENT OF ANTHROPOLOGY

Laure Dussubieux

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Margaret K. Thayer

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Janet R. Voight

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Harold K. Voris

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Jason D. Weckstein

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Mark W. Westneat

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McCord, C., and **Westneat, M. W.** (2011). Diversification of triggerfish (Teleostei: Balistidae) cranial shape and jaw biomechanics. *Integr. Comp. Biol.* 51(Suppl 1): 89.

PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION

Kevin A. Feldheim

DiBattista, J. D. and **Feldheim, K. A.** (2011). Isolation and characterization of eight microsatellite loci in *Chaetodon ornatissimus* and cross-amplification in a sympatric sister species, *Chaetodon meyeri. Conservation Genetics Resources* 3: 213–216. doi 10.1007/s12686-010-9325-z.

DiBattista, J. D., **Feldheim, K. A**. and Bowen, B. W. (2011). Microsatellite DNA markers to resolve population structure and hybridization of two closely related surgeonfish species, *Acanthurus nigricans* and *Acanthurus leucosternon. Conservation Genetic Resources* 3: 159–162.

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Benavides, M. T., Horn, R. L., **Feldheim**, **K. A.,** Shivji, M. S., Clarke, S. C., Wintner, S., Natanson, L., Braccini, M., Boomer, J. J., Gulak, S. J. B. and Chapman, D. D. (2011). Global phylogeography of the dusky shark *Carcharhinus obscurus*: implications for fisheries management and monitoring the shark fin trade. *Endangered Species Research* 14: 13–22. doi: 10.3354/esr00337

Benavides, M. T., **Feldheim, K. A.,** Duffy, C. A., Wintner, S., Braccini, M., Boomer, J., Huveneers, C., Rogers, P., Mangel, J. C., Alfaro-Shigueto, J., Cartamil, D. P., Chapman, D. D. (2011). Phylogeography of the copper shark (*Carcharhinus brachyurus*) in the Southern Hemisphere: implications for the conservation of a coastal apex predator. *Marine and Freshwater Research* 62:861–869.

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Feldheim, K. A., Brown, J. E., Murphy, D. J. and Stepien, C. A. (2011). Microsatellie loci for dreissenid mussels (Mollusca: Bivalvia: Dreissenidae) and relatives: markers for assessing exotic and native populations. *Molecular Ecology Resources* 11: 725–732. doi:10.1111/j.1755-0998.2011.03012.x

Keirle, M. R., Avis, P. G., **Feldheim, K. A**., Hemmes, D. E. and Mueller, G. M. (2011). Investigating the allelic evolution of an imperfect microsatellite locus in the Hawaiian mushroom *Rhodocollybia laulaha*. *Journal of Heredity,* 102: 727–734. doi: 10.1093/jhered/esr099.

Chapman, D. D., Simpfendorfer, C. A., Wiley, T. R., Poulakis, G. R., Curtis, C., Tringali, M., Carlson, J. K. and **Feldheim, K. A.** (2011). Genetic diversity despite population collapse in a critically endangered marine fish: the smalltooth sawfish (*Pristis pectinata*). *Journal of Heredity* 102: 643–652. doi:10.1093/jhered/esr098.

Dunton, K. J., Chapman, D. D., Jordaan, A., **Feldheim, K. A**., O'Leary, S. J., McKnown, K. A. and Frisk, M. G. (2011). Genetic mixed-stock analysis of Atlantic sturgeon *Acipenser oxyrinchus oxyrinchus* in a heavily exploited marine habitat indicates the need for routine genetic monitoring. *Journal of Fish Biology* doi: 10.1111/j.1095-8649.2011.03151.x.

Erin Sackett-Hermann
Nelsen, M. P., Chavez, N, **Sackett-Hermann, E.,** Thell, A., Randlane, T., Divakar, P. K., Rico, V. J., Lumbsch, H. T. (2011). "The Cetrarioid Core Group Revisited (*Parmeliaceae Lecanorales*)." *The Lichenologist* 43(6): 1–15.

BIODIVERSITY SYNTHESIS CENTER

Audrey Aronowsky
Aronowsky, A., Sanzenbacher, B., Thompson, J., Villanosa, K. (2011). Worked Example: How Scientific Accuracy in Game Design Stimulates Scientific Inquiry. *International Journal of Learning and Media* 3(1) doi: 10.1162/ijlm_a_00065

Joshua Drew
Drew, J. (2011). The role of natural history museums and bioinformatics in conservation biology. *Conservation Biology* v25, no6, 1250–1252.

Beth Sanzenbacher
Aronowsky, A., **Sanzenbacher, B.**, Thompson, J., Villanosa, K. (2011). Worked Example: How Scientific Accuracy in Game Design Stimulates Scientific Inquiry. *International Journal of Learning and Media* 3(1) doi: 10.1162/ijlm_a_00065

ACTIVE GRANTS
$17,691,006

DEPARTMENT OF ANTHROPOLOGY

L. Antonio Curet
Co-PI: none
Agency: National Science Foundation
Project: Household and Social Change in Ancient Puerto Rico
Period: Jun 09–May 12
Amount: $158,898

Laure Dubussieux
Co-PI: Ryan Williams
Agency: National Science Foundation
Project: Development of adaptable cell LA-ICP-MS and support for external collaborations in the elemental analysis facility at The Field Museum
Period: Sep 08–Aug 12
Amount: $177,268

Co-PI: Ryan Williams
Agency: National Science Foundation
Project: Basalt sourcing in the Andean Altiplano: An REU supplement to BCS-0818401
Period: Jul 09–Aug 11
Amount: $4,000

Gary M. Feinman
PI: Deborah Bekken; Co-PI: Karen Wilson
Agency: Department of Defense
Project: Iraq Cultural Heritage—The Kish Collection
Period: Aug 06–Jul 11
Amount: $976,000

Chapurukha M. Kusimba
Co-PI: Anne Underhill
Agency: National Endowment for the Arts
Project: Stimulus grant for retention of conservation staff
Period: Jul 09–Jun 11
Amount: $50,000

Co-PIs: Janet Monge, Ryan Raum, Sloan Williams
Agency: National Science Foundation
Project: Collaborative Research: Decoding the Swahili: An archaeological and genetic study of the Swahili of East Africa
Period: Sep 10–Aug 13
Amount: $124,128

William A. Parkinson
Co-PI: none
Agency: America for Bulgaria Foundation
Project: Advancing archaeological and anthropological research in southeastern Europe
Period: May 09–May 12

Amount: $159,500

Co-PI: Hanneke Hoekman-Sites
Agency: National Science Foundation
Project: DDIG: Resource intensification in early village societies: dairying on the Great Hungarian Plain
Period: Sep 09–Aug 11
Amount: $15,000

Co-PI: none
Agency: National Science Foundation
Project: Early Village Social Dynamics: Prehistoric Settlement Nucleation on the Great Hungarian Plain
Period: Sep 09–Aug 12
Amount: $231,312

Co-PI: none
Agency: National Science Foundation
Project: IRES: Collaboration and mentorship between US, Hungarian, and Greek researchers in the origins and development of prehistoric European villages
Period: Oct 10–Sep 13
Amount: $149,991

Co-PI: none
Agency: Institute for Aegean Prehistory
Project: The Diros project 2011: Greek-American collaborative research on the Mari Peninsula, southern Greece
Period: Jun 11–Dec 11
Amount: $20,000

Co-PI: none
Agency: America for Bulgaria Foundation
Project: Advancing archaeological and anthropological research in southeastern Europe through awarding postdoctoral fellowships with The Field Museum
Period: Jun 11–Dec 12
Amount: $106,540

Helen Robbins
Co-PI: none
Agency: National Park Service; NAGPRA
Project: Consultation with the central council of Tlingit and Haida indian tribes of Alaska
Period: Jun 10–Jun 12
Amount: $23,081

Co-PI: none
Agency: National Park Service; NAGPRA
Project: Consultation with the Hopi tribe
Period: Jun 10–Jun 12
Amount: $80,545

Nicola Sharratt
Co-PI: Ryan Williams
Agency: National Science Foundation
Project: DDIG: Coping with collapse—the effects of political decline on social identities
Period: Sep 09–Feb 11

Amount: $10,250

Co-PI: Ryan Williams
Agency: National Science Foundation
Project: Supplement: DDIG: Coping with collapse—the effects of political decline on social identities
Period: Sep 09–Feb 11
Amount: $1,200

Alaka Wali
Co-PI: none
Agency: National Science Foundation
Project: CNH: Collaborative Research: Coupled natural human systems in the Chicago wilderness: Evaluating the biodiversity and social outcomes of different models of restoration planning
Period: Sep 09–Aug 13
Amount: $495,399

Patrick Ryan Williams
Co-PI: Laure Dubussieux
Agency: National Science Foundation
Project: Development of adaptable cell LA-ICP-MS and support for external collaborations in the elemental analysis facility at The Field Museum
Period: Sep 08–Aug 12
Amount: $177,268

Co-PI: Nicola Sharratt
Agency: National Science Foundation
Project: DDIG: Coping with collapse—the effects of political decline on social identities
Period: Sep 09–Feb 11
Amount: $10,250

Co-PI: Nicola Sharratt
Agency: National Science Foundation
Project: Supplement: DDIG: Coping with collapse—the effects of political decline on social identities
Period: Sep 09–Feb 11
Amount: $1,200

Co-PI: Sofia Chacaltana
Agency: National Science Foundation
Project: DDIG: Mechanics of Empire and Integration—the role of small-scale Inca installations in the Colesuyo region
Period: Feb 10–Jan 12
Amount: $19,990

Co-PI: none
Agency: Negaunee Foundation
Project: Support for Anthropology Collections Assistant
Period: Jan 11–Dec 11
Amount: $32,000

DEPARTMENT OF BOTANY

John J. Engel
Co-PIs: Robert Lücking, Thorsten Lumbsch, Matt von Konrat
Agency: National Science Foundation
Project: Bringing Shuster, Standley, and Co. into the third millennium: The Field Museum's 160K bryophyte and lichen conversion and digitization project
Period: Jan 08–Apr 11
Amount: $349,283

Co-PI: Matt von Konrat
Agency: National Science Foundation
Project: Collaborative research on the Marchantiophyta, Anthocerophyta and Bryophyta of the cape horn archipelago: Floristics and implications for conservation
Period: May 10–Apr 14
Amount: $196,676

Co-PIs: Robert Lücking, Thorsten Lumbsch, Matt von Konrat
Agency: National Science Foundation
Project: REU supplement: The Field Museum's 180K bryophyte and lichen digitization project
Period: Jul 10–Jun 11
Amount: $14,386

Co-PI: Matt von Konrat
Agency: National Science Foundation
Project: The complete conversion and digitization of the Field Museum's Bryophyte collection: Working towards a networking hub of bryophyte specimen and taxonomic data
Period: Apr 11–Mar 14
Amount: $349,886

Robert Lücking
Co-PI: none
Agency: National Science Foundation
Project: NEOTROPICAL EPIPHYTIC MICROLICHENS—An innovative inventory of a highly diverse yet little known group of symbiotic organisms
Period: Oct 07–Aug 12
Amount: $448,873

Co-PIs: Robert Lücking, Thorsten Lumbsch, Matt Von Konrat
Agency: National Science Foundation
Project: Bringing Shuster, Standley, and Co. into the third millennium: The Field Museum’s 160K Bryophyte and lichen conversion and digitization project
Period: Jan 08–Dec 10
Amount: $349,283

Co-PIs: John Engel, Thorsten Lumbsch, Matt von Konrat
Agency: National Science Foundation
Project: REU supplement: The Field Museum's 180K bryophyte and lichen digitization project
Period: Jul 10–Jun 11
Amount: $14,386

Co-PI: Thorsten Lumbsch
Agency: National Science Foundation

Project: ATM - Assembling a taxonomic monograph: The lichen family Graphidaceae
Period: Aug 10–Jul 13
Amount: $466,110

Co-PI: Matt von Konrat
Agency: National Science Foundation
Project: Digitization TCN Collaborative Research: North American Lichens and Bryophytes: Sensitive Indicators of Environmental Quality and Change
Period: Jul 11–Jun 15
Amount: $143,252

Thorsten Lumbsch
Co-PIs: John Engel, Robert Lücking, Matt Von Konrat
Agency: National Science Foundation
Project: Bringing Shuster, Standley, and Co. into the third millennium: The Field Museum's 160K Bryophyte and lichen conversion and digitization project
Period: Jan 08–Apr 11
Amount: $349,283

Co-PI: Theodore Esslinger
Agency: National Science Foundation
Project: Hidden diversity in parmelioid lichens (Ascomycota, Lecanorales)
Period: Mar 10–Feb 12
Amount: $280,880

Co-PI: Robert Lücking
Agency: National Science Foundation
Project: ATM - Assembling a taxonomic monograph: The lichen family Graphidaceae
Period: Aug 10–Jul 13
Amount: $466,110

Co-PI: none
Agency: Negaunee Foundation
Project: Developing a DNA barcode for lichens
Period: Jan 11–Dec 11
Amount: $25,000

Co-PI: none
Agency: Negaunee Foundation
Project: Collections manager for early land plants
Period: Jan 11–Dec 11
Amount: $32,700

Co-PI: Christine Niezgoda, Matt von Konrat
Agency: The Mellon Foundation
Project: Latin American Plants
Period: Jun 10–Dec 12
Amount: $136,700

Christine Niezgoda
Co-PI: Christine Niezgoda, Matt von Konrat
Agency: The Mellon Foundation
Project: Latin American Plants

Period: Jun 10–Dec 12
Amount: $136,700

Richard H. Ree
Co-PI: none
Agency: Negaunee Foundation
Project: Chicago plant symposium
Period: Jan 11–Dec 11
Amount: $5,300

Co-PI: Patrick Kuss
Agency: National Science Foundation
Project: Phylogeny, biogeography, and diversification in Pedicularis (Orobanchaceae)
Period: Apr 11–Mar 14
Amount: $349,886

Matt von Konrat
Co-PIs: John Engel, Robert Lücking, Thorsten Lumbsch
Agency: National Science Foundation
Project: Bringing Shuster, Standley, and Co. into the third millennium: The Field Museum's 160K Bryophyte and lichen conversion and digitization project
Period: Jan 08–Apr 11
Amount: $349,283

Co-PIs: John Engel
Agency: National Science Foundation
Project: Collaborative research on the Marchantiophyta, Anthocerophyta and Bryophyta of the cape horn archipelago: Floristics and implications for conservation
Period: May 10–Apr 14
Amount: $196,676

Co-PIs: John Engel, Thorsten Lumbsch, Matt von Konrat
Agency: National Science Foundation
Project: REU supplement: The Field Museum's 180K bryophyte and lichen digitization project
Period: Jul 10–Jun 11
Amount: $14,386

Co-PI: Thorsten Lumbsch, Matt von Konrat
Agency: The Mellon Foundation
Project: Latin American Plants
Period: Jun 10–Dec 12
Amount: $136,700

Co-PI: John Engel
Agency: National Science Foundation
Project: The complete conversion and digitization of the Field Museum's Bryophyte collection: Working towards a networking hub of bryophyte specimen and taxonomic data
Period: Apr 11–Mar 14
Amount: $349,283

Co-PI: Robert Lücking
Agency: National Science Foundation

Project: Digitization TCN Collaborative Research: North American Lichens and Bryophytes: Sensitive Indicators of Environmental Quality and Change
Period: Jul 11–Jun 15
Amount: $143,252

Co-PI: none
Agency: Negaunee Foundation
Project: Field trip to Polynesia
Period: Jan 12–Dec 12
Amount: $25,000

DEPARTMENT OF GEOLOGY

Kenneth D. Angielczyk
Co-PIs: Peter Makovicky, Olivier Rieppel
Agency: Negaunee Foundation
Project: Scientific illustration in the Department of Geology
Period: Jan 11–Dec 11
Amount: $25,630

Ian Glasspool
Co-PI: none
Agency: Negaunee Foundation
Project: Preparation of paleobotany specimens
Period: Jan 11–Dec 11
Amount: $6,000

Lance Grande
Co-PI: none
Agency: National Science Foundation
Project: Collaborative Research: Integrated study of an exceptional avifauna from the Eocene Green River Formation: New data on avian evolution and taphonomy
Period: Aug 07–Aug 11
Amount: $49,994

Philipp R. Heck
Co-PI: none
Agency: National Aeronautics and Space Administration
Project: The origin of meteoritic nanodiamonds, interstellar residence times and isotopic anomalies of presolar grains and subgrains
Period: Mar 11–Mar 14
Amount: $176,000

Co-PI: none
Agency: Negaunee Foundation
Project: Data migration for meteorite collections
Period: Jan 12–Dec 12
Amount: $26,160

Melanie J. Hopkins
Co-PI: Scott Lidgard
Agency: National Science Foundation

Project: Collaborative Workshop: An Internet Resource for Integrating Plate Tectonic and Paleogeographic Mapping with On-line Earth Science Databases
Period: Jul 11–Jun 12
Amount: $20,047

Scott Lidgard
Co-PI: none
Agency: Negaunee Foundation
Project: A new kind of research database
Period: Jan 11–Dec 11
Amount: $38,000

Co-PI: Melanie Hopkins
Agency: National Science Foundation
Project: Collaborative Workshop: An Internet Resource for Integrating Plate Tectonic and Paleogeographic Mapping with On-line Earth Science Databases
Period: Jul 11–Jun 12
Amount: $20,047

Co-PI: none
Agency: Negaunee Foundation
Project: Research on “individuals” in biology
Period: Jan 12–Dec 12
Amount: $25,000

Peter J. Makovicky
Co-PI: Nathan Smith
Agency: National Science Foundation
Project: Collaborative research: New research on the Mesozoic vertebrate faunas of the Beardmore Glacier region, Antarctica
Period: Sep 09–Aug 12
Amount: $212,791

Co-PI: Petra Sierwald
Agency: National Science Foundation
Project: REU Site: Networked access to systematic resources for undergraduates in Chicagoland
Period: Jun 09–May 12
Amount: $258,464

Co-PIs: Ken Angielczyk, Olivier Rieppel
Agency: Negaunee Foundation
Project: Scientific illustration in the Department of Geology
Period: Jan 11–Dec 11
Amount: $25,630

Co-PIs: none
Agency: Negaunee Foundation
Project: CT scanning of dinosaur fossils
Period: Jan 12–Dec 12
Amount: $7,165

Olivier C. Rieppel
Co-PIs: Ken Angielczyk, Peter Makovicky

Agency: Negaunee Foundation
Project: Scientific illustration in the Department of Geology
Period: Jan 11–Dec 11
Amount: $25,630

Co-PIs: none
Agency: Negaunee Foundation
Project: Research on Hennig and Haeckel book
Period: Jan 12–Dec 12
Amount: $7,165

Nathan D. Smith
Co-PI: Peter Makovicky
Agency: National Science Foundation
Project: Collaborative research: New research on the Mesozoic vertebrate faunas of the Beardmore Glacier region, Antarctica
Period: Sep 09–Aug 12
Amount: $212,791

DEPARTMENT OF ZOOLOGY

John M. Bates
Co-PI: Julian Kerbis
Agency: John D. and Catherine T. MacArthur Foundation
Project: Climate change in the Albertine Rift: Effects on genetic diversity of hosts and their disease-carrying parasites
Period: Jun 10–May 12
Amount: $330,050

Co-PI: none
Agency: Negaunee Foundation
Project: Salary support for an Insects Collections Manager
Period: Jan 11–Dec 11
Amount: $29,000

Co-PI: Jason Weckstein
Agency: National Science Foundation
Project: Collaborative Research: Southern Amazonian birds and their symbionts: Biodiversity and endemicity of parasites from the most diverse avifauna on Earth
Period: Aug 11–Jul 14
Amount: $537,000

Co-PI: none
Agency: Negaunee Foundation
Project: Genetics and biodiversity of Albertine Rift birds
Period: Jan 12–Dec 12
Amount: $44,000

Rüdiger Bieler
Co-PI: none
Agency: National Science Foundation
Project: Collaborative Research: AToL: Phylogeny on the half-shell—Assembling the Bivalve Tree of Life

Period: Jan 08–Aug 12
Amount: $1,345,017

Co-PI: none
Agency: National Science Foundation
Project: Collaborative Research: REVSYS: Worm snails revised (Mollusca: Gastropoda)
Period: Mar 09–Feb 12
Amount: $250,000

Co-PI: Paula Mikkelsen
Agency: National Science Foundation
Project: Collaborative Research: Bivalves in time and space: Testing the accuracy of methods to reconstruct ancestral morphology, dates, geography, and diversification patterns
Period: Aug 09–Jul 12
Amount: $332,425

Co-PI: Margaret Thayer
Agency: National Science Foundation
Project: Infrastructure improvements to support invertebrate research at The Field Museum
Period: Aug 10–Jul 12
Amount: $2,787,782

Co-PI: Andre Sartori
Agency: EOL Fellows Program
Project: Marine bivalves (Veneridae, Cardiidae, and Pholadomyoida)
Period: Feb 11–Jan 12
Amount: $20,000

Co-PI: none
Agency: Negaunee Foundation
Project: Field vehicle for Florida Keys station
Period: Jan 12–Dec 12
Amount: $28,350

Steven M. Goodman
Co-PI: none
Agency: Critical Ecosystem Partnership Fund
Project: Support to the Malagasy international association Vahatra
Period: Jul 09–Jun 11
Amount: $214,391

Co-PI: none
Agency: The John D. and Catherine T. MacArthur Foundation
Project: Climate Change on Madagascar
Period: Nov 09–Oct 12
Amount: $400,000

Shannon J. Hackett
Co-PI: Sushma Reddy
Agency: National Science Foundation
Project: Collaborative Research: Avian diversification across tropical Asia: a systematic and biogeographic analysis of babblers (Aves: Timaliidae)
Period: Jan 08–Apr 11

Amount: $219,999

Co-PI: Elizabeth Babcock
Agency: National Institutes of Health (Univ. of Chicago)
Project: Subaward: Center for transcriptional network dynamics and evolution
Period: Sep 08–Aug 12
Amount: $202,747

Larry R. Heaney
Co-PI: none
Agency: Negaunee Foundation
Project: The mammals of Luzon, year 3 (promoting conservation in the Philippines through research and public education)
Period: Jan 11–Dec 11
Amount: $61,400

Co-PI: none
Agency: Negaunee Foundation
Project: Support of Mammals preparation lab
Period: Jan 11–Dec 11
Amount: $34,720

Co-PI: William Stanley
Agency: Center for Disease Control
Project: Wildlife sampling to inform modeling studies in the Greater Congo Basin
Period: Oct 11–Sep 12
Amount: $158,000

Corrie S. Moreau
Co-PI: none
Agency: National Science Foundation
Project: Collaborative Research: Phylogeny of the bat flies of the world—insights into trends in host associations and ectoparasitism
Period: Mar 11–Feb 14
Amount: $299,770

Co-PI: none
Agency: Negaunee Foundation
Project: Ant symbiosis in Costa Rica
Period: Jan 12–Dec 12
Amount: $29,000

Alfred F. Newton
Co-PI: Alexey Solodovnikov
Agency: National Science Foundation
Project: Collaborative Research: Phylogenetic reclassification and generic revision of the rove beetle tribe Staphylinini (Insecta: Coleoptera: Staphylinidae)
Period: Sep 07–Aug 11
Amount: $114,742

Bruce D. Patterson
Co-PI: Carl Dick
Agency: National Science Foundation

Project: Collaborative Research: Phylogeny of the bat flies of the world—insights into trends in host associations and ectoparasitism
Period: Apr 07–Jan 11
Amount: $158,516

Andre F. Sartori
Co-PI: Rüdiger Bieler
Agency: EOL Fellows Program
Project: Marine bivalves (Veneridae, Cardiidae, and Pholadomyoida)
Period: Feb 11–Jan 12
Amount: $20,000

Petra Sierwald
Co-PI: Jason Bond
Agency: National Science Foundation
Project: The Diplopoda: Systematics research, training and tools
Period: Jan 06–Dec 12
Amount: $748,955

Co-PI: Norman Platnick
Agency: National Science Foundation
Project: PBI—Collaborative Research: The megadiverse, microdistributed spider family Oonopidae
Period: Sep 06–Aug 11
Amount: $62,166

Co-PI: Peter Makovicky
Agency: National Science Foundation
Project: REU Site: Networked Access to Systematic Resources for Undergraduates in Chicagoland
Period: Jun 09–May 12
Amount: $258,464

Co-PI: Peter Makovicky
Agency: National Science Foundation
Project: Supplement to: REU Site: Networked Access to Systematic Resources for Undergraduates in Chicagoland
Period: Jan 10–May 12
Amount: $1,000

Co-PI: Margaret Thayer
Agency: Negaunee Foundation
Project: Imaging small insects and invertebrates
Period: Jan 12–Dec 12
Amount: $9,899

W. Leo Smith
Co-PI: none
Agency: National Science Foundation
Project: Collaborative Research: Assembling the Euteleost Tree of Life—Addressing the Major Unresolved Problem in Vertebrate Phylogeny
Period: Oct 07–Sep 12
Amount: $261,598

Co-PI: none
Agency: Institute of Museum and Library Services
Project: Providing long-term security and access to genetic resources at Field Museum
Period: Aug 09–Jul 11
Amount: $119,803

Co-PI: none
Agency: National Science Foundation
Project: Collaborative Research: Evolution of exceptional diversity in spiny-rayed fishes
Period: Mar 11–Feb 13
Amount: $288,056

Co-PI: none
Agency: Negaunee Foundation
Project: 3-D imaging of Abyssal fishes
Period: Jan 12–Dec 12
Amount: $32,000

William T. Stanley
Co-PI: Larry Heaney
Agency: Center for Disease Control
Project: Wildlife sampling to inform modeling studies in the Greater Congo Basin
Period: Oct 11–Sep 12
Amount: $158,000

Margaret Thayer
Co-PI: Rüdiger Bieler
Agency: National Science Foundation
Project: Infrastructure improvements to support invertebrate research at The Field Museum
Period: Aug 10–Jul 12
Amount: $2,787,782

Co-PI: Petra Sierwald
Agency: Negaunee Foundation
Project: Imaging small insects and invertebrates
Period: Jan 12–Dec 12
Amount: $9,899

Jason D. Weckstein
Co-PI: John Bates
Agency: National Science Foundation
Project: Collaborative Research: Southern Amazonian birds and their symbionts: Biodiversity and endemicity of parasites from the most diverse avifauna on Earth
Period: Aug 11–Jul 14
Amount: $537,000

Mark W. Westneat
Co-PI: none
Agency: National Science Foundation
Project: Phylogenetic relationships and the evolution of skull mechanisms in perciform coral reef fishes
Period: Mar 09–Feb 12
Amount: $400,000

OFFICE OF COLLECTIONS AND RESEARCH

Lance Grande
Co-PI: none
Agency: Negaunee Foundation
Project: Unrestricted support
Period: Jan 11–Dec 11
Amount: $50,000

Co-PI: none
Agency: Negaunee Foundation
Project: Green River Formation book (U. of Chicago Press)
Period: Jan 11–Dec 11
Amount: $37,000

Co-PI: Joseph Brennan
Agency: Negaunee Foundation
Project: Web and digital media producer for C&R
Period: Jan 11–Dec 11
Amount: $43,000

Co-PI: none
Agency: Negaunee Foundation
Project: Continued support for *expeditions@fieldmuseum.org*
Period: Jan 11–Dec 11
Amount: $30,000

Co-PI: none
Agency: Negaunee Foundation
Project: Continued support for *expeditions@fieldmuseum.org*
Period: Jan 12–Dec 12
Amount: $50,000

Co-PI: none
Agency: Negaunee Foundation
Project: *Field Revealed* video series
Period: Jan 12–Dec 12
Amount: $70,000

Co-PI: none
Agency: Negaunee Foundation
Project: Enhancement and upgrades to Collections and Research web content
Period: Jan 12–Dec 12
Amount: $25,083

BIODIVERSITY SYNTHESIS CENTER

Karen Cranston
Co-PI: Mark Westneat
Agency: National Science Foundation
Project: Subaward: Iplant collaborative: A cyberinfrastructure centered community for a new plant biology
Period: Mar 10–Feb 11

Amount: $62,435

Torsten Dikow
Co-PI: none
Agency: National Science Foundation
Project: REVSYS: Phylogeny, revisionary taxonomy & the fossil record of asiloid flies (Diptera: Apioceridae, Asilidae, Mydidae)
Period: Aug 09–Jul 12
Amount: $382,628

Joshua Drew
Co-PIs: Beth Sanzenbacher, Krystal Villanosa, Mark Westneat
Agency: The John D. and Catherine T. MacArthur Foundation; subcontract through Smithsonian
Project: Conservation Connection: From the west side to the west Pacific
Period: Sep 10–Dec 11
Amount: $152,000

Beth Sanzenbacher
Co-PIs: Josh Drew, Krystal Villanosa, Mark Westneat
Agency: The John D. and Catherine T. MacArthur Foundation; subcontract through Smithsonian
Project: Conservation Connection: From the west side to the west Pacific
Period: Sep 10–Dec 11
Amount: $152,000

Mark W. Westneat
Co-PIs: none
Agency: The John D. and Catherine T. MacArthur Foundation; subcontract through Smithsonian
Project: Biodiversity Synthesis Center
Period: Jul 07–Jul 11
Amount: $2,089,856

Co-PI: Karen Cranston
Agency: National Science Foundation
Project: Subaward: Iplant collaborative: A cyberinfrastructure centered community for a new plant biology
Period: Mar 10–Feb 11
Amount: $62,435

Co-PIs: Josh Drew, Beth Sanzenbacher, Krystal Villanosa
Agency: The John D. and Catherine T. MacArthur Foundation; subcontract through Smithsonian
Project: Conservation Connection: From the west side to the west Pacific
Period: Sep 10–Dec 11
Amount: $152,000

LIBRARY

Christine Giannoni
Co-PI: none
Agency: Negaunee Foundation
Project: Library photo archives: Scanning archival negatives
Period: Jan 12–Dec 12
Amount: $13,100

PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION

Kevin A. Feldheim
Co-PI: Samuel Gruber
Agency: National Science Foundation
Project: Collaborative Research: A comparison of the mating system and evolutionary potential of lemon sharks, *Negaprion brevirostris* (Poey), at two nursery sites in the western Atlantic
Period: Feb 07–Jan 11
Amount: $206,282

Co-PI: none
Agency: National Oceanic and Atmospheric Administration/National Marine Fisheries Service
Project: Investigations into the population genetics of large tooh sawfish Pristis perotteti
Period: Sep 10–Apr 11
Amount: $25,000

COLLABORATIVE PARTNERSHIPS—Fiscal Agent other than Field Museum

William A. Parkinson
Co-PI: Apostolos Sarris
Agency: Wenner Gren Foundation
Project: Early Village Social Dynamics: Prehistoric Settlement Nucleation on the Great Hungarian Plain
Period: Jun 11–May 13
Amount: $34,215

Bruce D. Patterson
Co-PI: Nate Upham
Agency: National Science Foundation
Project: DISSERTATION RESEARCH Fossils and phylogeny: investigating the timing of diversification in a diverse lineage of Neotropical rodents (Caviomorpha: Octodontoidea)
Period: Jul 11–Jun 13
Amount: $15,000

Olivier C. Rieppel
Co-PI: Thorsten Scheyer
Agency: Swiss National Science Foundation
Project: Phylogenetic relationships of placodont reptiles (Diapsida, Sauropterygia) as evidenced by 3D imaging, bone histology, and developmental data
Period: Jan 10–Dec 13
Amount: SFr. 230,000

Co-PIs: Jörg Fröbisch, Nadia Fröbisch, Martin Sander, Lars Schmitz
Agency: National Geographic Society
Project: The enigmatic *Omphalosaurus* and the diversification of marine reptiles
Period: Jan 11–Dec 12
Amount: $17,000

Co-PIs: J. Jiang, R. Motani, A. Tintori
Agency: Chinese National Science Foundation

Project: Radiation bio-event sequence of marine reptile faunas and global migratory-evolutionary pattern within the course from early recovery to radiated reconstruction of Early-Middle Triassic ecosystem after the end-Permian Mass Extinction
Period: Jan 10–Dec 13
Amount: ¥1,400,000

Petra Sierwald
Co-PI: Pat Herendeen
Agency: National Science Foundation
Project: Future Directions in Systematic Biology and Biodiversity Surveys and Inventories Research (meetings held at Chicago Botanic Garden)
Period: Jun 09–May 11
Amount: $100,000

CONFERENCES, SYMPOSIA, WORKSHOPS AND INVITED LECTURES, 2011

DEPARTMENT OF ANTHROPOLOGY

Douglas Bolender
Presenter, Annual Meeting of the American Anthropological Association, Montreal, Canada; Presenter, 76th Annual Meeting of the Society for American Archaeology, Sacramento, CA.

J.P. Brown
Presenter, American Institute for Conservation Annual Meeting, Philadelphia, PA.

Laure Dussubieux
76th Annual Meeting of the Society for American Archaeology, Sacramento, CA; Invited Lecturer, Missouri University Research Reactor, Columbia, MO.

Gary Feinman
Annual Meeting of the American Association for the Advancement of Science, Washington, DC; 80th Annual Meeting of the American Association of Physical Anthropologists, Minneapolis; 76th Annual Meeting of the Society for American Archaeology, Sacramento, CA; 34th Annual Midwest Mesoamericanists Conference, Iowa City, IA; Sexta Mesa Redonda de Monte Albán, Oaxaca, Mexico; International Conference on Pathways to Power, Oriental Institute, Chicago; Third Market and Marketization Workshop, University of Helsinki, Finland; Invited Lecturer, Robert Hunt Lecture in Economic Anthropology, Department of Anthropology, and Economic Anthropology Reading Group, Brandeis University.

Mark Golitko
76th Annual Meeting of the Society for American Archaeology, Sacramento, CA; Lapita Pacific Archaeology Conference, Apia, Samoa; Annual Meeting of the American Anthropological Association, Montreal, Canada; Invited Lecturer, University of Wisconsin, Madison.

Jonathan Haas
Pathways to Power: Comparative Perspectives on the Emergence of Political Authority and Hierarchy in the Ancient Near East, Conference at the Oriental Institute, University of Chicago.

Chapurukha M. Kusimba
Ibadism in Oman, Tuebingen, Germany; Medieval African Civilizations, Dar es Salaam, Tanzania; Men of Iron Conference, University of Cape Town, South Africa; Thinking Across the African Past, Conference, Houston, TX; Keynote Speaker, University of Michigan, Ann Arbor, MI; Invited Lecturer, South East Illinois AIA Chapter, Illinois; Invited Lecturer, University of Milwaukee, AIA Milwaukee Chapter, Wisconsin; Invited Lecturer, Bryn Mawr College, Pennsylvania; Invited Lecturer, Institute of African Studies, University of Nairobi, Nairobi, Kenya; Invited Lecturer, Lamu Fort Museum, Lamu, Kenya; Invited Lecturer, Sun Yat Sen University, Guangzhou, China.

Debbie Linn
Chicago Area Conservation Group Symposia, Chicago, IL.

Robert D. Martin
Invited Presenter, “Primate Evolution: Some Research Highlights,” Columbia College; Invited Guest Lecturer, “Primate Evolution: An Introductory Survey”, University of Chicago; Presenter, 80th Annual Meeting of the American Association of Physical Anthropologists, Minneapolis, MN; Invited Presenter, “The Evolution of Human Mothering”, Penn State University, State College, PA; Invited Lecturer, Earth Science Club of Northern Illinois, College of DuPage, Glen Ellyn, IL; 34th Annual Meeting of the American Association of Primatologists, Minneapolis, MN; Guest Lecturer, “Evolution of the Primate Brain”,

University of Illinois at Chicago; Invited Lecturer, A. Watson Armour Speaker Series, The Field Museum, Chicago, IL; “Who Was the Hobbit?” Debate with Dr. Ian Tattersall at the California Academy of Sciences, San Francisco, CA.

Linda Nicholas
80th Annual Meeting of the American Association of Physical Anthropologists, Minneapolis, Sexta Mesa Redonda de Monte Albán, Oaxaca, Mexico.

Lisa Niziolek
Annual Meeting of the American Anthropological Association, Montreal, Canada.

William A. Parkinson
Invited Presenter, Socio-Environmental Dynamics Over the Last 12,000 Years: The Creation of Landscapes, International Conference, University of Kiel, Germany; Presenter, Seventh Annual Meeting of Hungarian Prehistorians, Százhalombatta, Hungary; Invited Lecturer, Hungarian National Museum, Budapest, Hungary; Invited Presenter, “The Transition from the Neolithic to the Eneolitic in Central and South-Eastern Europe in the Light of Recent Research”, Symposium, Timişoara, Romania; Invited Presenter, 17th Annual Meeting of the European Association of Archaeologists, Oslo, Norway.

Christopher J. Philipp
Pacific Arts Association 10th International Symposium, Rarotonga, Cook Islands; Ta’unga Ina Paptua’s Tapa Workshop, Mangaia, Cook Islands.

James L. Phillips
76th Annual Meeting of the Society for American Archaeology, Sacramento, CA; Annual Meeting of the American Schools of Oriental Research, San Francisco, CA.

Nicola Sharratt
Presenter, 76th Annual Meeting of the Society for American Archaeology, Sacramento, CA; Invited Lecturer, A. Watson Armour Speaker Series, The Field Museum, Chicago, IL.

John Edward Terrell
Invited Lecturer, Columbia University, New York, NY, “Archaeology, Material Culture, and Social Network Analysis.”

Tsenka Tsanova
Presenter, Hugo Obermaier Annual Meeting, Herne, Germany; Invited Lecturer, Neanderthal Museum, Mettmann, Germany.

Alaka Wali
Annual Meeting of the American Anthropological Association, Montreal, Canada; Invited Guest Lecturer for U.S. Department of State Speakers Exchange Program, Guatemala; Annual Meetings of the Society for Applied Anthropology, Seattle, WA; Symposium on Contemporary Urban Collections, DePaul University, Chicago, IL; National Mayors’ Summit on Design, Chicago, IL.

Patrick Ryan Williams
52nd Annual Meeting of the Institute for Andean Studies, Berkeley, CA; 76th Annual Meeting of the Society for American Archaeology, Sacramento, CA; Invited Lecturer, Archaeological Research Center, Stanford University, Palo Alto, CA; Invited Lecturer, Archaeological Research Center, Harvard University, Cambridge, MA; Invited Speaker, South American Research Seminar, University College London, United Kingdom; 30th Northeast Meeting on Andean Archaeology and Ethnohistory, Peabody Museum, Andover, MA.

DEPARTMENT OF BOTANY

Michael O. Dillon
Annual Meeting of Chilean Societies of Botany, Evolution, Ecology, and Genetics, Puerto Varas, Chile; Flora del Desierto Costero del norte de Chile: Formaciones de Lomas, Ministero del Medio Ambiente (SEREMI), Antofagasta, Chile.

Steven Leavitt
Invited Lecturer, Brigham Young University Department of Biology Seminar Series; 2011 Annual Meeting of the Mycological Society of America, Fairbanks, AK.

Robert Lücking
Annual Meeting, British Lichen Society, London, England; VI Congreso Colombiano de Botánica, Cali, Colombia; X Reunión del Grupo Latinoamericano de Liquenólogos (GLAL X), Bogotá, Colombia; VI Reunião Brasileira de Estudos Liquenológicos (6ª REBEL), Campo Grande, Brazil, NSF Tropical Lichen Workshop, Universidad de San Carlos, Guatemala; NSF Tropical Lichen Workshop, Universidad de El Salvador; NSF Tropical Lichen Workshop, Universidad de Panama; NSF Tropical Lichen Workshop, Universidad de Puerto Rico; NSF Tropical Lichen Workshops, Universidad Distrital and Universidad de Los Andes, Colombia; NSF Tropical Lichen Workshops, Universidade Federal de Sergipe and Universidade Federal de Mato Grosso do Sul, Brazil; NSF Tropical Lichen Workshop, Universidad Nacional de Asunción, Paraguay; BLS Swinscow Lecture, British Natural History Museum, London; Universidad de Puerto Rico; Facultad de Biología, Universidad Nacional de Colombia; Universidad de Los Andes, Colombia; Universidad Nacional de Asunción, Paraguay.

Sabine Huhndorf
Fungal Barcoding Symposium, Amsterdam, Netherlands; "One Fungus=One Name" Symposium, Amsterdam, Netherlands; Mellasco Ascomycete Foray, Melle, France.

Thorsten Lumbsch
Georg-August University, Goettingen, Germany; Goethe University, Frankfurt, Germany; Ramkamhaeng University, Bangkok, Thailand; Fungal Barcode Workshop, Amsterdam, The Netherlands; Global Plant Initiative Meeting, Panama City, Panama; International Barcode of Life Conference, Adelaide, Australia; International Botanical Congress, Melbourne, Australia; Mycological Society of America Annual Meeting, Fairbanks, AK.

Christine Niezgoda
XVIII International Botanical Congress, Melbourne, Australia.

Sittiporn Parnmen
Invited speaker, XVIII International Botanical Congress, Melbourne, Australia.

Richard H. Ree
North Carolina State University; Conference, "Evolution of Life on Pacific Islands and Reefs: Past, Present, and Future," Honolulu; University of Minnesota, Twin Cities; University of Wisconsin, Madison; Symposium, "Analytical Advances in Macroecology and Biogeography," International Biogeography Society, Crete; International Biogeography Society; Biogeography of Pacific Islands, Honolulu, HI; "Plant traits and diversification," National Evolutionary Synthesis Center, Durham, NC.

Betty Strack
Mycological Society of America Annual Meeting, Fairbanks, AK; A. H. Smith Great Lakes Mycological Foray, Mukwonago, WI; Congress of European Mycologists, Porto Carras, Greece; Latin America Mycological Congress, San Pedro, Costa Rica.

Matt von Konrat
Invited speaker, XVIII International Botanical Congress, Melbourne, Australia.

DEPARTMENT OF GEOLOGY

Kenneth D. Angielczyk
Society for Integrative and Comparative Biology, Salt Lake City, UT; Games, Learning and Society 7.0, Madison, WI; 71st Annual Meeting of the Society of Vertebrate Paleontology, Las Vegas, NV; Invited Lecturer, Wildlife and Environmental Conservation Society of Zambia; Zygon Center for Religion and Science, Lutheran School of Theology Hyde Park Campus.

Philipp R. Heck
Presenter, 42nd Lunar and Planetary Science Conference, The Woodlands, TX; Presenter, 74th Annual Meeting of the Meteoritical Society, Greenwich, UK; Advanced Photon Source/Center for Nanoscale Materials/Electron Microscopy Center Users Meeting 2011, Argonne National Laboratory; 50th Anniversary Symposium of the Center for Meteorite Studies at Arizona State University; Presenter, Workshop on the First Solids in the Solar System, Kauai, HI; Bi-annual Geochemistry Secondary Ion Mass Spectrometry Workshop; Convener of Symposium Extraterrestrial Dust: Laboratory Analysis of Mission-Returned Dust and Hypervelocity Dust Impacts (Oral and Poster sessions) at the American Geophysical Union Fall Meeting, San Francisco, CA; Presenter, American Geophysical Union Fall Meeting, San Francisco, CA; Invited Lectures, Department of Earth and Space Sciences, UCLA; Nuclear, Particle and Astrophysics Seminar, Department of Physics, University of Basel, Switzerland; Presenter, Department of Earth and Environmental Sciences, University of Illinois at Chicago.

James L. Holstein
Presenter, 42nd Lunar and Planetary Science Conference, The Woodlands, TX; 74th Annual Meeting of the Meteoritical Society, Greenwich, UK. Invited Lecturer: Earth Science Club of Northern Illinois; New Trier High School, Winnetka, IL.

Melanie J. Hopkins
Presenter, Geological Society of America Annual Meeting; Invited Lecturer, Undergraduate Summer Research seminar series, University of Northern Iowa; Co-organizer, NSF-funded workshop on building an internet resource for integrating paleogeographic mapping with online earth science databases, The Field Museum.

Scott Lidgard
Invited Lecturer: Society for the History, Philosophy, and Social Studies of Biology, Salt Lake City, UT; Geological Society of America Annual Meeting, Minneapolis, MN; Minnesota Center for Philosophy of Science, University of Minnesota, Minneapolis, MN.

Peter J. Makovicky
Invited Lecturer: Founder's Council, Founder's Council Frontiers, Unpacking Party, The Field Museum; Presenter, Quarterly Presidential Address (2), The Field Museum.

Paul S. Mayer
Presenter, 26th Annual Meeting of the Society for the Preservation of Natural History Collections, San Francisco, CA.

Olivier Rieppel
Invited Lecturer, International Congress for Systematics and Evolutionary Biology, Berlin (plenary lecture); Granada, Spain; Workshop, Natural Kinds, Granada, Spain.

Akiko Shinya
Workshop organizer, Travel and Expedition Medicine, 71st Annual Meeting of the Society of Vertebrate Paleontology, Las Vegas, NV; Invited Lecturer, Dinosaur symposium in Tanba, The Museum of Nature and Human Activities, Hyogo, Japan.

William F. Simpson
71st Annual Meeting of the Society for Vertebrate Paleontology, Las Vegas, NV; Participant, Travel and Medicine Workshop, SVP Annual Meetings, Las Vegas, NV.

Paul P. Sipiera
Lunar & Planetary Science Conference, Houston, TX; Annual Meeting of the Meteoritical Society, London, UK; Invited Lecturer: Workshop at event commemorating the first anniversary of the fall of the 2010 Miffin, WI meteorite, Mineral Point, WI; Stellafane Astronomical Conference, meteorite workshop, Springfield, VT; Annual Members' Meeting, Cernan Earth & Space Center in River Grove, IL.

Nathan D. Smith
11th International Symposium on Antarctic Earth Sciences, Edinburgh, Scotland; IV Congresso Latinoamericano de Paleontologia de Vertebrados, San Juan, Argentina; 71st Annual Meeting of the Society of Vertebrate Paleontology, Las Vegas, NV; Moderator, 2011 Field Museum Undergraduate Research Symposium; Invited Lecturer: Department of Biology, North Carolina State University, Raleigh, NC; North Carolina Museum of Natural Sciences, Raleigh, NC; Department of Geological Sciences, University of Texas, Austin.

Constance Van Beek
Presenter, 4th Annual Fossil Preparation and Collections Symposium, Kemmerer, WY; Advisor, fossil preparation workshops, Burpee Museum, Rockford, IL.

Lindsay E. Zanno
Presenter, 71st Annual Meeting of the Society of Vertebrate Paleontology, Las Vegas, NV; Invited Lecturer, Department of Earth and Atmospheric Sciences, University of Nebrasksa-Lincoln, Lincoln, NE; Department of Biology, University of Wisconsin-Parkside, Kenosha, WI; North Carolina Museum of Natural Sciences; Department of Biology, North Carolina State University, NC.

DEPARTMENT OF ZOOLOGY

John M. Bates
Invited Seminar, Lawrence University; Speaker, Wildlife Conservation Society Workshop on Albertine Rift Climate Change, Rwanda; Co-sponsor, Workshop on Museum Communication, Museums of Malawi, Blantyre, Malawi; Presenter, American Ornithologists' Union, Jacksonville, FL.

Rüdiger Bieler
Invited Speaker, Central Michigan University, Mount Pleasant, MI; Workshop Organizer, Smithsonian Institution's Carrie Bow Cay Field Station in the barrier reef of Belize; Primary Investigator, Bivalve-ATOL collaborators meetings, Miami, FL; Organizer, Bivalves-in-Time-and-Space (BiTS) collaborators meeting, BioSynC, Field Museum.

James H. Boone
Illinois Butterfly Monitoring Workshop, Chicago, IL.

Joshua I. Engel
American Ornithologists' Union Meeting, Jacksonville, FL.

Steven M. Goodman
Invited Lecturer, CRVOI, La Réunion, France; l'Université de la Réunion, St. Clotide, La Réunion, France; The University of Stellenbosch, Stellenbosch, South Africa; CIRAD, Antananarivo, Madagascar; Peace Corps, Mantasoa, Madagascar; CNRS, l'Institut Ecologie et Environnement, Paris, France; African Small Mammals group, The University of Swaziland; Southern African Society for Systematic Biology, Grahamstown, South Africa.

Shannon J. Hackett
Invited Lecturer, Career Day, Whitney M. Young Magnet School, Chicago, IL.

Lawrence R. Heaney
Keynote Speaker, International Biogeography Society, Young Investigators Conference, University of Oxford, UK; International Biogeography Society, Heraklion, Crete, Greece; Society for the Study of Evolution, Portland, OR.

Robert F. Inger
IUCN Workshop on Conservation Status of Snakes of Southeast Asia and Sundaland, Beijing, China.

Julian C. Kerbis Peterhans
Invited Lecturer, The Saddle & Cycle Club, Chicago, IL; Jury, Peterhans Prize, Course in Visual Training, Illinois Institute of Technology, Chicago, IL.

Corrie S. Moreau
Keynote Speaker, Australasian Evolution Society meeting, Townsville, Queensland, Australia. Presenter, Annual Meeting of the Entomological Society of America, Reno, NV. Invited Lecturer, Miller Institute of Basic Research in Science, University of California, Berkeley; Drexel University, Philadelphia, PA; American Museum of Natural History, New York, NY; University of Chicago, IL.

Alfred F. Newton
26th International Meeting on Biology and Systematics of Staphylinidae, Verona, Italy; 59th Annual Meeting of the Entomological Society of America, Reno, Nevada; Annual Meeting of the Entomological Collections Network, Reno, NV; Annual Meeting of the Coleopterists Society, Reno, NV.

Bruce D. Patterson
Presenter, American Society of Mammalogists, Portland, OR; Invited Lecturer and Presenter, Zoological Society of South Africa and the Parasitological Society of South Africa, Stellenbosch, South Africa; Presentation co-author, IV Congresso Latinamericano de Paleontología Vertebrados, San Juan, Argentina; Invited Lecturer, 1st Congreso Ecuatoriano de Mastozoología, Quito, Ecuador.

Alan Resetar
Annual meeting, Indiana DNR Nongame Program Amphibian and Reptile Technical Advisory Committee, Indianapolis, IN.

André F. Sartori
XXII Encontro Brasileiro de Malacologia, Fortaleza, Brazil; FMNH REU Phylogenetic Workshop, Chicago; Invited lecturer, Evolutionary Morphology Seminar Series, University of Chicago, IL.

Petra Sierwald
Smithsonian Institution's Carrie Bow Cay Field Station, barrier reef of Belize, field workshop. Lead Organizer, 3rd Annual Undergraduate Research Symposium, The Field Museum; Invited Speaker, Collections Web: NSF workshop, Radford, VA.

W. Leo Smith
American Society of Ichthyologists and Herpetologists Annual Meeting, Minneapolis, MN; EOL Workshop "Cybertaxonomy," Chicago, IL; Invited Lecturer, University of Chicago, IL.

William T. Stanley
American Society of Mammalogists Meeting, Portland, OR.

Margaret K. Thayer
26th International Meeting on Biology and Systematics of Staphylinidae, Verona, Italy; Annual meetings of Entomological Society of America, Entomological Collections Network, and Coleopterists Society, Reno, NV; 3rd Annual Undergraduate Research Symposium, The Field Museum, Chicago, IL; Entomological Collections Network annual meeting, Reno, NV.

Janet R. Voight
Invited Lecturer, Annual Biology Careers Seminar Series, Malcolm X. College, Chicago, IL; Women's Board Out-Reach Luncheon; Loop Luncheon for Founders' Council, Edward Ayers Society, The Field Museum.

Jason D. Weckstein
Invited Lecturer: North Carolina State University, Raleigh, NC; North Carolina Central University, Durham, NC. Speaker, American Ornithologists' Union Meeting, Jacksonville, FL; Neotropical Ornithological Congress, Cuzco, Peru; Presentation Co-author, Neotropical Ornithological Congress, Cuzco, Peru.

Mark W. Westneat
Society of Integrative and Comparative Biology, Salt Lake City, UT; Life and Literature meeting, Chicago IL; Presenter, American Museum of Natural History; Western Kentucky University; Loyola University; NSF Writing Workshop on Systematics Agenda, The Field Museum; Fish Megatree Meeting, The Field Museum; Phenoscape RCN workshop, NESCent, Durham, NC.

BIODIVERSITY SYNTHESIS CENTER

Audrey Aronowsky
Society for Integrative and Comparative Biology, Salt Lake City, UT; Digital Media and Learning conference, Long Beach, CA; Synthesis Centers Postdoctoral Researcher Summit, Durham, NC; Cyberinfrastructure Working Group, Durham, NC; Games, Learning, and Society, Madison, WI.

Christopher Baron
Cyberinfrastructure Working Group, Durham, NC.

Torsten Dikow
Synthesis Centers Postdoctoral Researcher Summit, Durham, NC; Henning Society Meeting, Brazil.

Joshua Drew
Synthesis Centers Postdoctoral Researcher Summit, Durham, NC; International Marine Conservation Congress, Victoria, BC; American Society of Ichthyologists and Herpetologists, Minneapolis, MN.

Richard Ree
Cyberinfrastructure Working Group, Durham, NC.

Beth Sanzenbacher
Digital Media and Learning conference, Long Beach, CA; Games, Learning, and Society, Madison, WI; Encyclopedia of Life and Public Exhibits, Cambridge, MA; International Marine Conservation Congress, Victoria, BC; American Society of Ichthyologists and Herpetologists, Minneapolis, MN.

Mark W. Westneat
Society for Integrative and Comparative Biology, Salt Lake City, UT; RCN Ontologies meeting, Durham, NC.

PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION

Kevin A. Feldheim
Invited Lecturer, Stony Brook University; Loyola University; Skype/online Lecturer, Staples High School, Westport, CT.

Erin Sackett-Hermann
Invited Lecturer, Digital Libraries: Research and Practice, University of Illinois at Urbana-Champaign, IL.

LIBRARY

Diana Duncan
American Library Association Midwinter Meeting, San Diego, CA; OCLC: Good Practices for Great Outcomes: Cataloging Efficiencies that Make a Difference, Chicago, IL; Oracle 11gR2 Administration Workshop 1, Schaumburg, IL.

Christine Giannoni
Biodiversity Heritage Library Institutional Council Annual Meeting, Washington, D.C.

MUSEUM AND PUBLIC SERVICE, 2011

(Editorships, Committees, etc.)

DEPARTMENT OF ANTHROPOLOGY

J. P. Brown
Field Museum: Member, Common Ground; Member, SEM Users Group; Lead User for portable FTIR and Bruker pXRF. Lead Programmer, Image Processing and Barcoding software.

Gary Feinman
Field Museum: Member, Scientific Advisory Council; Associate Editor, *Fieldiana Anthropology*; Member, Anthropology Acquisitions Committee; Member, Anthropology Promotions Committee; Member, Anthropology Space Committee; Member, Anthropology Fund Raising Committee.
External: Editor, *Journal of Archaeological Research;* Series Editor, *Fundamental Issues in Archaeology*, Springer; Advisory Editor, *Foundations of Archaeology*, Eliot Werner Publications, Inc.; Advisory Editor, *Foundations of Anthropology*, Eliot Werner Publications, Inc.; Advisory Editor, *Principles of Archaeology*, Eliot Werner Publications; Advisory Editor, *Cross-Cultural Research;* Publications Committee, Society for American Archaeology*;* Editorial Board, *The Open Anthropology Journal*; Editorial Board, *Human Ecology*; External Director, Committee to oversee the Archaeology Research Center at Shandong University, Jinan, China; Member, Planning Committee, Mesas Redondas de Monte Albán, Mexico; Outside hiring/tenure review: University of California-San Diego; Ms./Book referee: *American Anthropologist, Ancient Mesoamerica, Current Anthropology, Human Ecology (2), Journal of Anthropological Archaeology, Journal of Field Archaeology, Latin American Antiquity, Oxford Bibliographies on line, Research in Economic Anthropology*; Grant/Fellowship referee: National Endowment for the Humanities, National Science Foundation (3).

Mark Golitko
Field Museum: Anthropology Internship Program Coordinator.

Jonathan Haas
Field Museum: *Fieldiana* Editorial Board; Chair, Anthropology Acquisitions Committee; Chair, Anthropology Space Committee; Member, Repatriation Committee; Member, Search Committee, Assistant Registrar; Chair, North American Curatorial Team; Member, Latin American Curatorial Team.
External: University of Illinois at Chicago: Graduate Admissions Committee; Editorial Board: Anthropology and Culture; Organizing Committee, Museos Regional del Norte Chico; Consultant, Northern Illinois University Anthropology Museum; Peer Reviewer: National Science Foundation, National Endowment for the Humanities, National Geographic Society, *Latin American Antiquity*, *American Antiquity*, *Journal of Anthropological Research*, *American Anthropologist*.

Jamie Kelly
Field Museum: Member, Emu User Group; Member, Anthropology Information Management Committee; Member, Anthropology Old World Curatorial Team; Member, Anthropology North American Curatorial Team.
External: Member, Illinois Archaeological Survey; Webmaster, Midwest Archaeological Conference, Inc.; Webmaster, Center for History, Wheaton, IL; Webmaster, Powell Archaeological Research Center.

Chapurukha M. Kusimba
Field Museum: Member, Search Committee, University of Illinois at Chicago; Chair, Promotion Committee, Anthropology Department.
External: Editorial Board, *African Archaeological Review, Journal of Archaeological Research, South African Archaeological Review, Azania: Journal of African Archaeology, Coetsen Institute of Archaeology Publication Series, Peer Review: National Science Foundation, National Geographic Society, Cambridge*

Journal of Archaeology, Journal of Historical Archaeology, African Archaeological Review, Azania; Journal of African Archaeology.

Debbie Linn
Field Museum: Representative, Collections and Research Professional Staff.
External: Grant Reviewer, IMLS Save America's Treasures Program; Conservation Consultant, Chicago Cultural Alliance.

Robert D. Martin
Field Museum: Chair, Intradepartmental Relation Committee, Anthropology Department; Member, Library Committee; Co-Organizer, Leakey Lecture Series.
External: Member, External Scientific Advisory Committee, Duke University Lemur Center; Peer Reviewer, University of Göttingen, German Council of Science and Humanities.

Linda Nicholas
External: Editorial Assistant, *Journal of Archaeological Research, Fundamental Issues in Archaeology* (Springer series).

Ruth E. Norton
Field Museum: Member, Pests Committee; Member, A Greener Field Committee.
External: Field Editor, *Art and Archaeology Technical Abstracts Online* (Getty).

William A. Parkinson
Field Museum: Chair, Old World Curatorial Team, Department of Anthropology; Chair, Information Technology Committee, Department of Anthropology; Member, Acquisitions Committee, Department of Anthropology; Member, Information Technology, Collections and Research Committee.
External: Program Coordinator, America for Bulgaria Foundation Archaeology Program; Chair, Archaeological Advisory Committee, America for Bulgaria Foundation Archaeology Program.

Christopher J. Philipp
Field Museum: Coordinator, Department Tours; Member, Pacific Curatorial Team.

John Edward Terrell
Field Museum: Coordinator, A. Watson Armour Lecture Series; Member, C&R Scholarship Committee.

Alaka Wali
Field Museum: Member, Repatriation Subcommittee of the Committee on Science; Member, ECCo Committee of the Board of Trustees; Member, North American Curatorial Team; Member, ECCo Leadership Team.
External: Editorial Board, *American Anthropologist*; Co-Editor, Public Anthropology Reviews Section of the *American Anthropologist*; Editorial Board, Collaborative Anthropologies, new independent annual journal; Reviewer for *Human Organization*, Journal of the Society for Applied Anthropology; Member, Board of Trustees, National Public Housing Museum; Member, Board of Trustees, Chicago Cultural Alliance; Member, Advisory Committee on Arts and Culture, Chicago Metropolitan Agency for Planning *GoTo2040 Project*; Member, Cultural Vitality Index Task Force, Arts Alliance Illinois.

Patrick Ryan Williams
Field Museum: Chair, Anthropology; Director, Elemental Analysis Facility; Alternate Member, Information Technology, Collections and Research Committee.
External: Member, University of Illinois at Chicago Anthropology Graduate Admissions Committee; Director, Academic Advisory Board Museo Contisuyo.

DEPARTMENT OF BOTANY

Mark Alvey
Field Museum: Botany representative, Science/Public Education Committee.

William Burger
Other: Secretary, Nature Camera Club of Chicago.

Michael O. Dillon
Field Museum: Head of Phanerogams.
External: Editorial Board, *Arnaldoa*, Peru; Editorial Board, *Flora of Ecuador*, The Netherlands; Editorial Committee, *Flora Neotropica*; Editor, *Chloris Chilensis*, Chile; Fellow, Center for Advanced Studies in Ecology and Biodiversity; Pontificia Universidad Católica de Chile; Visiting Professor, Biological Sciences Faculty, Universidad Ricardo Palma, Lima, Peru; Honorary Professor, Universidad Nacional de Cajamarca, Cajamarca, Peru; Visiting Professor, Universidad Antenor Orrego, Trujillo, Peru; Honorary Professor, Universidad Nacional de San Agustin, Arequipa, Peru; Socio Honorario, Colegio de Biológos del Perú; Manuscript Reviewer, *Journal of Vegetation Science*, *Journal of Biogeography*, *Journal of Arid Plant Environments*, *Novon*, *Plant Ecology and Diversity*, *Phytotaxa*, *Smithsonian Institution Publications*, *Taxon*.

Sabine Huhndorf
Field Museum: Scholarship Committee; SAC alternate.
External: Editor, *Mycologia*, Mycological Society of America; Editor, MYCONET.

Maria Lucia Kawasaki
External: Manuscript reviewer, *Caldasia*, *Novon*, *Rodriguésia*, *Systematic Botany*; Member, Organization for Flora Neotropica Commission.

Patrick Leacock
External: Scientific Advisor, Illinois Mycological Association; Contact person for mushroom cases, Illinois Poison Center; Chair, Voucher Collection Committee, North American Mycological Association.

Robert Lücking
Field Museum: Botany Representative, Common Ground User Group; Botany Representative, SEM Committee.
External: Editorial Board, *Mycosphere, The Lichenologist*; Reviewer: *Acta Botanica Brasilica, African Journal of Microbiology Research, American Journal of Botany, Biodiversity and Conservation, Biotropica, Bryologist, Canotia, Ecological Indicators, Ecological Research, Ernstia, Evolution, Feddes Repetorium, Fungal Biology, Fungal Diversity, Glalia, Herzogia, International Journal of Biodiversity and Conservation, Journal of the Torrey Botanical Society, Lichenologist, Lichenology, Micron, Molecular Phylogenetics and Evolution, Mycokeys, Mycologia, Mycological Progress, Mycological Research, Mycosphere, Mycotaxon, Nova Hedwigia, Opuscula Philolichenum, Phytotaxa, Taxon*; Grant Reviewer, National Geographic, National Science Foundation, Natural Sciences and Engineering Research Council of Canada, Estonian Science Foundation, EOL Rubenstein Fellowships.

Thorsten Lumbsch
Field Museum: Chair, Department of Botany; Member, Management Committee, Pritzker Laboratory for Molecular Systematics; Participant, TFM C&R Committee; Participant, Board of Trustees' Orientation for New Trustees.
External: Vice President, International Association for Lichenology (IAL); Editor: *Mycokeys, Nova Hedwigia*; Associate Editor/Editorial Board: *Australian Systematic Botany*, *Fieldiana—Life and Earth Sciences, Fungal Biology, Fungal Diversity*, *Mycology, Phytotaxa, Systematic Biology, Taxon, Willdenowia*; Guest Editor, *The Lichenologist*; Ad hoc reviewer: more than 25 international journals;

Panelist/proposal reviewer: National Science Foundation, Austrian Research Council, Czech Research Council, Deutsche Forschungsgemeinschaft; Chair, Research Award Committee, Mycological Society of America.

Christine Niezgoda
Field Museum: Member, Pest Committee, Library Committee.

Sittiporn Parnmen
External: Manuscript reviewer, *The Lichenologist.*

Richard Ree
Field Museum: Member: Science Advisory Council, Pritzker Lab Management Group, Board IT Committee, C&R/IT Committee; Alternate: Exhibitions Science Liaison Committee; Assistant Director, Biodiversity Synthesis Center.
External: Peer reviewer, *Evolution*, *PLoS ONE*, *Ecography*, *Science*, *Ecology*, Conse*rvation Biology*, *Biological Reviews*, NSF, *Molecular Biology and Evolution*; Editorial Board Member, *International Journal of Plant Science*; Advisory Board member, National Evolutionary Synthesis Center.

Matt von Konrat
Field Museum: A. Watson Armour III Seminar Committee.
External: International—Member of the Committee for Bryophyta, International Association for Plant Taxonomy; Member of the IUCN SSC Bryophyte Specialist Group; Member of Executive Council for the International Association of Bryologists; Member of the International Advisory Panel for the New Zealand Journal of Botany; Peer-reviewer of manuscripts for six scientific journals; Editor, Bryophytes for the journal *Phytotaxa* and for the journal *PhytoKeys*.

DEPARTMENT OF GEOLOGY

Kenneth D. Angielczyk
Field Museum: Parker-Gentry Award Committee; Science and Public Education Committee; A. Watson Armour III Seminar Committee; Steering Council, The Field Museum/IDP Foundation, Inc. African Training Fund.
External: Journal Editorial Boards*: Bulletins of American Paleontology, Palaeontographica Americana, Palaeontology*. Journal Peer Reviewer*: Geobios, Herpetologica, Journal of Morphology, Journal of Theoretical Biology, Journal of Vertebrate Paleontology, Proceedings B*. Grant Proposal Peer Reviewer*:* National Geographic Committee for Exploration and Research; NSF Antarctic Earth Sciences Program; NSF Earth Sciences Postdoctoral Fellowship; NSF Sedimentary Geology and Paleobiology Program. Society Service*:* Alfred Sherwood Romer Prize Committee (Society of Vertebrate Paleontology); Best Student Paper Award Committee (*Journal of Vertebrate Paleontology*); Harrel L. Strimple Award Committee (Paleontological Society); Judge for Best Student Presentation (Division of Systematics and Evolutionary Biology, 2011 Annual Meeting of the Society for Integrative and Comparative Biology). Member, Student Advisory Committee, Committee on Evolutionary Biology, University of Chicago.

Ian Glasspool
Field Museum: Representative, C&R Professional Staff; Member: Scholarship Committee; Science Advisory Council; Collections and Research/Information Technology Committee; IT Database Subcommittee.
External: Manuscript reviewer: *Review of Palaeobotany and Palynology*; *Palaeogeography, Palaeoclimatology, Palaeoecology; International Journal of Coal Geology; Geoscience Frontiers*.

Lance Grande
Field Museum: Executive Team; Chair, Collections and Research Strategic Planning committee; Weekly Chairs Meeting; Member of Collections and Research subcommittee and Board; Presenter at Board meetings; Founder, C&R Media Group.
External: Board Member and Chair of Program Committee, Chicago Council on Science and Technology; Steering Committee Member, Encyclopedia of Life; Council on the Graham School, University of Chicago.

Philipp R. Heck
Field Museum: Tawani Polar Expedition Fund, Committee Member; Scholarship Committee, Geology Representative; Peer review of meteorite and terrestrial physical geology sample request proposals.
External: User Executive Committee of the Argonne National Laboratory Electron Microscopy Center; Member Review panel member of the NASA Cosmochemistry Program; Subcommittee member of the Curation and Analysis Planning Team for Extraterrestrial Materials (CAPTEM) that oversees the care and distribution of all samples collected by NASA's Stardust Mission; Member, *Interstellar Dust Preliminary Examination Team* for samples from NASA's Stardust Mission; Peer reviewer, NASA's Origins and Cosmochemistry Programs; Peer reviewer for the journals *Meteoritics & Planetary Science, Geochimica et Cosmochimica Acta*. Member, Chicago Center for Cosmochemistry; Member, international consortium for the study of the meteorite fall Mifflin.

Melanie J. Hopkins
External: Manuscript review: *Paleobiology*, *Journal of Paleontology*.

Scott Lidgard
Field Museum: Member, Collections and Research/ Information Technology Committee; Member, Library Committee.
External: Executive Council Member, International Bryozoological Association; Manuscript reviewer, *Science*, *Marine Ecology Progress Series*; Grant proposal reviewer for National Science Foundation; Deutsche Forschungsgemeinschaft Geowissenschaften (German Research Council, Geosciences).

Peter J. Makovicky
Field Museum: Member, Field Museum Presidential Search Committee.
External: Grant reviewer, NSF and National Geographic Society; manuscript reviewer for *Nature, Proceedings of the Royal Society B, Journal of Vertebrate Paleontology, PLoS One, Journal of Systematic Palaeontology, Acta Palaeontologica Polonica;* Editorial advisory board member for Springer Verlag series *Vertebrate Paleobiology and Paleoanthropology.*

Paul S. Mayer
Field Museum: Website Development Committee; Envisioning the Future Initiative.

Olivier Rieppel
Field Museum: Member, Science Advisory Council; Co-Editor, *Fieldiana*.
External: Appointment to the Council of the International Organization for Systematics and Evolutionary Biology; Appointment to the Editorial Board of the University of California Press "Species and Systematics" Book Series.

Akiko Shinya
External: Member, Society of Vertebrate Paleontology Preparator's Committee; Member, Society of Vertebrate Paleontology Information Management Committee; Web editor, Society of Vertebrate Paleontology.

William F. Simpson
Field Museum: Manager, Geology Department X-Ray Facility; Content Advisor, Ken Angielczyk NSF grant proposal for Fossil Mammal Collection; Participant, fossil vertebrate scanning project at Argonne National Laboratories.
External: Co-Chairman, Society of Vertebrate Paleontology Preparator's Committee; Member, Society of Vertebrate Paleontology Ad Hoc Fossil Repositories and Collections Committee; Moderator, Preparation Session, 71st Annual Meeting of the Society for Vertebrate Paleontology, Las Vegas, NV.

Paul P. Sipiera
External: Executive Board Member, Apple River Fort State Historic Site, Elizabeth, IL.

Nathan D. Smith
External: Manuscript Reviews for: *Acta Palaeontologica Polonica, Biology Letters, Zoological Journal of the Linnean Society, Cladistics, Palaeontology.* Consultant, Scientific Reader and Paleontologist for Heinemann-Raintree Publishing, Chicago, IL; Scientific editor and consultant, the "Extreme Dinosaurs" series of six children's books about dinosaur fossils.

Constance Van Beek
External: Society of Vertebrate Paleontology Preparator's Committee; reviewed Abstracts for Preparators Symposium 2011 Society of Vertebrate Paleontology Las Vegas, NV.

Lindsay E. Zanno
External: 72nd Annual Meeting of the Society of Vertebrate Paleontology, Host Committee Member; Manuscript reviewer for the following journals: *Vertebrata PalAsiatica*, *Cretaceous Research*, *Naturwissenschaften*, *PLoS ONE*, *Palaios*.

DEPARTMENT OF ZOOLOGY

John M. Bates
Field Museum: Chairman, Department of Zoology; Acting Head, Division of Amphibians and Reptiles; Member, Pritzker Lab Management Committee; Member, C&R Management Group; Member, Africa Council; Member, African Training Program scientific committee; Memner, Collections and Research Collections subcommittee; Participant, Committee on Science; new Trustee Orientations; Chairman, M.O.U. Committee; Member, Parker-Gentry Award Nominating Committee.
External: Member, Cooper Ornithological Society Student Awards Committee; Zoology Department Liaison with Chicago office of U.S.F.W Service; Member, Editorial Board, Bulletin of the Museu Goeldi; Member, American Ornithologists' Union Collections Committee; Member, Steering Committee, VertNet program; Planning Committee Chair, 2013 Meetings of the American Ornithologists' Union Meetings, Chicago.

Rüdiger Bieler
Field Museum: Head, Division of Invertebrates; Chair, Library Committee; Lead-PI on Invertebrates/Insects Infrastructure Project.
External: President, Institute of Malacology; Associate Editor/Editorial Board, *Zoological Journal of the Linnean Society, Zootaxa, Malacologia – International Journal of Malacology, Archiv für Molluskenkunde, The Nautilus, The Festivus, Iberus, The Yuriyagai, Acta Zootaxonomica Sinica, Papéis Avulsos de Zoologia, Arquivos de Zoologia*. Member, Committee on Evolutionary Biology, University of Chicago; Member, Faculty Appointments Committee, CEB, University of Chicago; Content provider, various textbook projects.

James H. Boone
Field Museum: Member, Emu Users Group, Web Users Group, and Evacuation Team.

External: Reviewer, book proposals, *University of Chicago Press*.

Dave J. Clarke
Field Museum: Volunteer supervisor.
External: Manuscript Reviewer, *Systematic Entomology*.

Jochen Gerber
Field Museum: Member, Library Committee.
External: President, Chicago Shell Club; Member, Terrestrial Mollusk Team, New Pest Advisory Group, APHIS (USDA); Editor for terrestrial gastropods, *Zootaxa*; Reviewer, *Biological Journal of the Linnean Society, Organisms Diversity and Evolution, ZooKeys, Zootaxa*.

Steven M. Goodman
External: Editorial Board, *Faune de Madagascar, Mammalia, African Bat Conservation Newsletter, Malagasy Nature, Guides sur la diversité biologique de Madagascar, Univers Maoré, Taloha* (l'Institut de Civilisations/Musée d'Art et d'Archéologie de l'Université d'Antananarivo); manuscript reviews: *Acta Chiropterologica, American Journal of Primatology, Biological Journal of the Linnean Society, Conservation Biology, Environmental Conservation, International Journal of Primatology, Journal of Biogeography, Journal of Mammalogy, Journal of Zoology, Malagasy Nature, Mammalia, Science, Proceedings of the National Academy of Science, USA, Zootaxa*.

Shannon J. Hackett
Field Museum: Chair, Science Advisory Council; Member, Pritzker Lab Management Committee; Co-chair, IT/C&R Committee; Manager, High Performance Computing Cluster; Collections and Research point person, Cryogenics Facility; Radiation Safety Officer; Member, Field Museum and Argonne exploratory team to digitize Field Museum collections.
External: Editorial Board, *Molecular Phylogenetics and Evolution*; Co-Chair, University of Chicago Committee on Evolutionary Biology; Planning Committee Member, 2013 Meetings of the American Ornithologists' Union Meetings, Chicago.

Lawrence R. Heaney
Field Museum: Head, Division of Mammals; Co-Chair, Pest Committee; At-Large Representative, Science Advisory Council.
External: President, International Biogeography Society; Emeritus Director, Board of Trustees, Wildlife Conservation Society of the Philippines; Consultant on Philippine conservation issues for Conservation International and the Philippine Department of Environment and Natural Resources; Associate Editor, *Journal of Biogeography*; Editorial Board, *Silliman Journal* (Philippines); Editorial Advisor, *Frontiers of Biogeography*.

Janeen Jones
Field Museum: Chair, C&R EMu and Web Users' Group; Zoology Representative, Collections Data sub-committee of the C&R/Information Technology Committee; Zoology Representative, Web Users' Group; EMu Admin, taught various classes from basic to more advanced use of Collections database to staff; Zoology Representative, EMu/Drupal development committee.

Kathleen Kelly
Field Museum: Member, EMu User Group; Member, Web Users Group; Member, Pests Committee; Member, Evacuation Committee.

Julian C. Kerbis Peterhans
External: Member, Executive Committee, College of Professional Studies, Roosevelt University; Representative to College Council of Arts & Sciences, College of Professional Studies, Roosevelt University; Member, Research Leave & Professional improvement Committee, Roosevelt University;

Reviewer: *Journal of Mammalogy, Journal of East African Natural History*; reviewed proposals for the National Geographic Society.

Corrie S. Moreau
Field Museum: Member, Pritzker Laboratory Management Committee; Secretary, American Association of University Professors, Field Museum chapter; Participant, Field Museum Envisioning the Future Initiative.
External: Faculty Member, Committee on Evolutionary Biology, University of Chicago; Editor: *PLoS ONE, Myrmecological News*; Manuscript reviewer: *Annals of the Entomological Society of America, Biology Letters, Evolution, Journal of Biogeography, Molecular Ecology, PLoS ONE, Systematic Biology, Zootaxa*; Oversight Committee Member, Global Ant Project; Member, Ant Course student selection committee; Encyclopedia of Life curator (Formicidae); Wiley Science Advisors member; Expert on Antweb's AntAsk blog; Curator of Florida Keys Ants on Antweb.org.

Alfred F. Newton
Field Museum: Curatorial consultant, Division of Insects, Zoology.
External: Editorial Board, *Belgian Journal of Entomology*; Manuscript Reviewer, *Beiträge zur Entomologie, Bulletin of the National Museum of Nature and Science, European Journal of Entomology, Insect Systematics & Evolution, Journal of Natural History, Systematic Entomology, Zoologica Scripta, ZooKeys, Zootaxa*.

Bruce D. Patterson
Field Museum: Member, Institutional Animal Care and Use Committee; Member, Scholarship Committee; Member, Curatorial Steering Committee, Council on Africa; Member, Curatorial Steering Committee, IDP/FMNH African Training Program; Member, Parker-Gentry Award Selection Committee; Member, Department of Anthropology Promotions and Review Committee; Exhibit Content Specialist, *Whales* traveling exhibit, *Lod Mosaic* traveling exhibit, *Extreme Mammals* traveling exhibit; Liaison, Graduate Program with University of Illinois at Chicago.
External: Associate Editor, *Mastozoología Neotropical*; Associate Editor, *Diversity and Distributions*; Past President, American Society of Mammalogists; Chair, Honorary Membership Committee, American Society of Mammalogists; Ad hoc member, Systematic Collections Committee, American Society of Mammalogists; Chair, Systematic Collections Committee, International Federation of Mammalogists; Member, Small Mammal Specialist Group, IUCN; Regional Red List Authority (Neotropics) for Small Mammals, IUCN; Tenure review committee for Biological Sciences, Texas Tech University; Investigator review for National Research Foundation, South Africa; Peer Reviewer: NSF proposals (2), journal articles (18).

Alan Resetar
External: Member, Indiana DNR Nongame Program Amphibian and Reptile Technical Advisory Committee; Member, Partners in Amphibian and Reptile Conservation.

André F. Sartori
External: Manuscript Reviewer: *Journal of Theoretical Biology, Journal of Paleontology, Zootaxa, Journal of Molluscan Studies, Nautilus, Zoologia*.

Petra Sierwald
Field Museum: Chair, Scholarship Committee; Lead-PI on REU site grant: undergraduate and high school intern program.
External: Associate Editor/Editorial Board, *Zoological Journal of the Linnean Society; International Journal of Myriapodology, The Journal of Arachnology*; Member, Committee on Evolutionary Biology, University of Chicago; Member, Faculty Appointments Committee, CEB, University of Chicago; NSF Panel Service.

W. Leo Smith
Field Museum: Head, Division of Fishes; Member, Pritzker Laboratory Management Committee; Member, Common Ground.
External: Associate Editor of *Genetics, Development, and Morphology, Copeia*; Illustration Editor, *Copeia*; Board of Governors, American Society of Ichthyologists and Herpetologists; Member, Committee on Evolutionary Biology, University of Chicago; Member, Committee on Evolutionary Biology Admissions Committee, University of Chicago; Member of Steering Committee, Department of Education Graduate Assistance in Areas of National Need Award, University of Chicago; Member, Hinds Fund Reviewer, Committee on Evolutionary Biology, University of Chicago; Manuscript Reviewer: *Biological Journal of the Linnean Society, BMC Evolutionary Biology, Copeia, Journal of Fish Biology, Molecular Phylogenetics and Evolution, PLOS One, Zootaxa*; Book Reviewer: *Mesozoic Fishes*.

William T. Stanley
Field Museum: Member, A Greener Field.
External: Chair, Systematic Collections Committee, American Society of Mammalogists.

Kevin Swagel
Field Museum: Member, Personnel Committee.

Margaret K. Thayer
Field Museum: Head, Division of Insects; Co-PI of NSF ARI-R^2 Infrastructure grant; Associate Editor (Zoology), *Fieldiana*; At-Large and Alternate Zoology Member, Scientific Advisory Council (SAC); Zoology representative, A. Watson Armour III Seminar Committee; Member, Zoology Promotions Committee; Coordinator, Insects EMu collection database; Insects rep. working with Argonne digitization team; Secretary, then President, American Association of University Professors (AAUP), FMNH Chapter; Museum pest IDs for Smithereen; Member, EMu Users Group, Web Users Group; host for multiple non-student collection visitors.
External: Editorial Board, *Thomas Say Publications* (Entomological Society of America); Editorial Board, *Annales Zoologici*; Comité Editorial, *Dugesiana*; Contributing Editor (Staphylinidae), bugguide.net identifications for Australian National Insect Collection and University of Illinois at Urbana-Champaign; Manuscript Reviewer: *Zootaxa, Florida Entomologist, Canadian Journal of Arthropod Identification, Coleopterists Bulletin*.

Janet R. Voight
Field Museum: Managing Scientific Editor, *Fieldiana*; Member, Institutional Animal Care and Use Committee; Member, Review Committee for Temporary Exhibitions Proposals; Co-Chair: Science, Public Education Committee (SPEC).
External: Associate Editor, *Journal of Molluscan Studies*; Grant proposal review for France-IFREMER; Member, Editorial Board, *Malacologia*, Member, Editorial Board, *American Malacological Bulletin*; ad hoc manuscript reviews for *Marine Ecology Progress Series; Acta Zoology; Journal of Morphology; Invertebrate Biology; Biological Journal of the Linnean Society; The Nautilus; Malacologia*; Chair, American Malacological Society Student Research Award Committee.

Jason D. Weckstein
External: American Ornithologists' Union Student Presentation Awards Committee.

Mark W. Westneat
Field Museum: Chair, Department of Zoology, Chair, Institutional Animal Care and Use Committee; Field Museum-University of Chicago Teaching Liaison.
External: Executive Board, Phyloinformatics Research Foundation; Steering Committee, Tree of Life Web Project; Group Leader, Encyclopedia of Life; Chair, Division of Vertebrate Morphology, Society of Integrative and Comparative Biology; BitMaP Advisory Board, Chicago Technology Park; NSF Committee on Future of Systematics.

BIODIVERSITY SYNTHESIS CENTER

Audrey Aronowsky
Field Museum: BioSynC Member, Digital Learning committee.

Torsten Dikow
External: Editorial Advisory Board, *African Invertebrates*; Editorial Board, *Insect Systematics & Evolution*; Editorial Board, *Studia Dipterologica.*

Joshua Drew
External: Associate Editor, *Conservation Biology.*

Beth Sanzenbacher
Field Museum: BioSynC Member, C&R Media Group.

Mark W. Westneat
Field Museum: Member and Chair, Institutional Animal Care and Use Committee; Field Museum-University of Chicago Teaching Liaison.
External: Steering Committee, Tree of Life Web Project; Hinds Fund Committee, University of Chicago; Chair, Division of Vertebrate Morphology, Society of Integrative and Comparative Biology.

PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION

Kevin A. Feldheim
External Programs: Member, American Elasmobranch Society, American Society of Ichthyologists and Herpetologists; Manuscript referee, *Copeia, Molecular Ecology, Journal of Fish Biology, Journal of Heredity, Conservation Genetics*.
Other: Entry contributer, the *World Book Encyclopedia* ("lemon sharks") and the *Encyclopedia of Genetics* ("microsatellites").

LIBRARY

Melissa Anderson
Field Museum: Clean Up Committee; Evacuation Committee; Members Night Committee, Library Committee (liaison).

Karen Bean
Field Museum: Evacuation Committee.

Nina Cummings
Field Museum: Clean Up Committee.

Diana Duncan
Field Museum: Evacuation Committee.

Armand Esai
Field Museum: Library Committee; Clean Up Committee; Exhibition Curator/Liaison for Brooker Gallery.
External: Member, Society of American Archivists; Member, ARMA.

Christine Giannoni
Field Museum: Library Committee; Representative, Fieldiana Board.
External: Member, American Library Association (ALA); Member, Institutional Council of the Biodiversity Heritage Library; Coordinator, Chicago Area Museum Libraries (CAML).

Michael Trombley
Field Museum: Personnel Committee.

OFFICE OF COLLECTIONS AND RESEARCH

Kasey Mennie
Field Museum: Member, A Greener Field.
External: Member, Logan Square Bike Walk.

Carter O'Brien
Field Museum: Chair, A Greener Field; Collections and Research Coordinator, Women's Board Field Dreams program; Member, Shared Bikes Committee; Member, Food Operator Committee.
External: Chair, Finance Committee, Dill Pickle Co-Op; Member, Green Museums Steering Committee, Chicago Park District, City of Chicago; Volunteer, Treekeeper, Openlands/City of Chicago; Member, Logan Square Bike Walk; Board Member, O'Brien Clan Foundation.

FIELDWORK AND RESEARCH TRAVEL, 2011

DEPARTMENT OF ANTHROPOLOGY

Douglas Bolender
Fieldwork: Skagafjörður, Iceland.
Research: Euboea, Greece; Peloponnesos, Greece.

Laure Dussubieux
Research: Bordeaux, France; Paris, France.

Gary Feinman
Fieldwork: Mitla Fortress, Oaxaca, Mexico; Shandong, China.

Mark Golitko
Research: Papua New Guinea.

Jonathan Haas
Fieldwork: Fortaleza Valley, Peru.
Research: Barranca, Peru; Philippines; Paris, France.

Chapurukha M. Kusimba
Fieldwork: Kenya; Madagascar; China.

Linda Nicholas
Fieldwork: Mitla Fortress in Oaxaca, Mexico; Shandong, China

William A. Parkinson
Fieldwork: Mani Peninsula, Greece; Southeastern Hungary.
Research: Milos, Greece; Hungary; Western Mani, Greece.

Christopher J. Philipp
Fieldwork: American Samoa; Apia and Savai'i, Samoa.
Research: Bishop Museum, Honolulu, Oahu, HI.

James L. Phillips
Fieldwork: Tel Tayinat, Turkey; Zincirli, Turkey.
Research: Tel Tayinat, Turkey; Zincirli, Turkey.

Nicola Sharratt
Fieldwork: Moquegua and Southern Coast, Peru; Azapa and Lluta Valleys, Chile.
Research: London, UK.

Tsenka Tsanova
Fieldwork: Kunino, Vratsa, Bulgaria.

Alaka Wali
Fieldwork: Cordillera Azul National Park, Peru; Greater Chicago Metropolitan Region, IL.

Patrick Ryan Williams
Fieldwork: Moquegua, Peru; Arica, Chile; Copacabana, Bolivia; Nasca, Peru.
Research: British Museum, London, UK; UNCG, Greensboro, NC.

DEPARTMENT OF BOTANY

Michael O. Dillon
Fieldwork: Chile.

Patrick Leacock
Field Work: McHenry County and Chicago region, Illinois and Indiana; North American Mycological Association foray, Clarion, PA; Michigan City BioBlitz, IN.

Robert Lücking
Field Work: Lichen Mapping, Guatemala City; El Salvador; La Campana National Park, Panama; Caribbean National Forest (El Yunque), Puerto Rico; Colombia; Gran Chaco at Porto Murtinho, Brazil; University Campus, Universidad Nacional de Asunción, Paraguay.
Research: US National Herbarium, Washington; British Natural History Museum, London; Universidad de San Carlos, Guatemala; Universidad de Panama; Universidad de Puerto Rico; Universidad Distrital Francisco José de Caldas, Colombia; Universidad Nacional de Colombia; Universidad de Los Andes, Colombia; Universidad del Valle, Colombia; Universidade Federal de Sergipe, Brazil; Universidade Federal de Mato Grosso do Sul, Brazil; Universidad Nacional de Asunción, Paraguay.

Thorsten Lumbsch
Fieldwork: Fiji, Spain, Thailand.
Research: Ramkamhaeng University, Bangkok, Thailand; Universidad de Complutense, Madrid, Spain.

Sittiporn Parnmen
Fieldwork: Australia.

Richard Ree
Research: Harvard University, Cambridge, MA; Diamantia, Brazil.

Matt von Konrat
Fieldwork: Fiji, Chile.

DEPARTMENT OF GEOLOGY

Kenneth D. Angielczyk
Research: Bernard Price Institute for Palaeontological Research, University of the Witwatersrand, Johannesburg, South Africa.
Fieldwork: Permian of the Parnaíba Basin, Brazil; Permian and Triassic of Luangwa and Zambezi basins, Zambia.

Ian Glasspool
Fieldwork: Albuquerque, NM; Houston, TX; Athens, OH.

Lance Grande
Fieldwork: Lewis Ranch, WY.

Philipp R. Heck
Research: ETH Zurich, Switzerland. University of Basel, Department of Physics, Basel, Switzerland; Cameca Instruments, Madison, WI.

James L. Holstein
Fieldwork: Green River Formation, Kemmerer, WY.

Melanie J. Hopkins
Research: National Museum of Natural History (Smithsonian), Washington D.C.

Scott Lidgard
Research: Imperial College, The Natural History Museum, The Royal College of Surgeons; all London, UK; University of Wisconsin, Madison; University of Minnesota.

Peter J. Makovicky
Research: American Museum of Natural History, New York; Lund University, Lund, Sweden; Institute of Vertebrate Paleontology and Paleoanthropology, Beijing, China; Peking University, Beijing, China; Paleontological Museum of Liaoning, Shenyang, China.
Fieldwork: Central Transantarctic Mountains; Western Liaoning province, Yixian and Jiufotang Formations, China.

Paul S. Mayer
Research: Milwaukee Public Museum, WI; California Academy of Science, San Francisco, CA.

Olivier Rieppel
Research: Basel, Beijing, Berlin, Hangzhou, Zurich.

Akiko Shinya
Fieldwork: Green River Formation, Kemmerer, WY.

Nathan D. Smith
Research: Canterbury Museum, Texas Memorial Museum, Ghost Ranch Ruth Hall Museum of Paleontology, National Museum of Scotland, Museo de Ciencias Naturales San Juan, Museo Argentino de Ciencias Naturales, Museo de Ciencias Naturales de La Plata.
Fieldwork: Fremouw, Falla, Hanson Formations, Beardmore Glacier region of the Central Transantarctic Mountains, Antarctica; Chadron and Brule Formations, White River Badlands, Nebraska; Hayden Quarry, Chinle Formation, Ghost Ranch, New Mexico.

Constance Van Beek
Fieldwork: Green River Formation, Kemmerer, WY.

Lindsay E. Zanno
Research: Institute of Vertebrate Palaeontology and Palaeoanthropology, Beijing, China; Paleontological Museum of Liaoning, Shenyang, China.
Fieldwork: Yixian & Jiofutang formations, Liaoning, China.

DEPARTMENT OF ZOOLOGY

John M. Bates
Fieldwork: Mangochi region, Malawi; Blanchardville, Wisconsin.
Research: American Museum of Natural History, New York, NY; Barrick Museum, Las Vegas, NV.

Rüdiger Bieler
Fieldwork: Florida Keys, FL; Belizean barrier reef.
Research: Tropical Research Laboratory, Summerland Key, FL; North Myrtle Beach, SC; Bailey-Matthews Shell Museum, Sanibel, FL.

James H. Boone
Fieldwork: Northerly Island, Chicago, IL.

Joshua I. Engel
Fieldwork: Malawi.

Jochen Gerber
Fieldwork: Midwestern U.S.

Steven M. Goodman
Fieldwork: Madagascar: Ankarana, Beanka, Lakato, Fandriana, Kirindy (CFPF); Comoros: Grande Comore and Anjouan.
Research: Paris, France, Muséum national d'Histoire naturelle; London, England, The Natural History Museum; Tring, England, The Natural History Museum.

Lawrence R. Heaney
Fieldwork: Mt. Amuyao, Mountain Province, Philippines; Toiyabe Range, Nevada.
Research: Philippine National Museum.

Julian C. Kerbis Peterhans
Fieldwork: Mt Gorongosa, Gorongosa National Park, Mozambique.
Research: Abbottsford House, Scotland; Musee Nacional, d'Histoire Naturelle, Paris.

James Louderman
Fieldwork: Seguaro National Park, Arizona; Mississippi Palisades State Park, Illinois.

Corrie S. Moreau
Fieldwork: Chiricahua Mountains, Arizona; Florida Keys, Florida.
Research: James Cook University, Townsville, Queensland, Australia; American Museum of Natural History, New York, NY; Drexel University, Philadelphia, PA.

Alfred F. Newton
Fieldwork: Italy; Illinois, Oregon and California.
Research: University of Central Florida, Orlando; Museo Civico di Storia Naturale "Giacomo Doria," Genova; Museo Civico di Storia Naturale, Verona.

Bruce D. Patterson
Fieldwork: Andean and Amazonian Ecuador; montane and Rift Valley, Kenya; Western Kenya.
Research: Pontificia Universidad Católica de Ecuador, Quito, Ecuador; National Museum of Natural History, Washington, D.C.

Alan Resetar
Fieldwork: Northern Indiana; Trail Creek Watershed BioBlitz, Michigan City, Indiana; Kilcollin wetland, Michigan.

André F. Sartori
Research: Paleontological Research Institution, Ithaca, NY.

Petra Sierwald
Fieldwork: Florida Keys, FL; Belize.
Research: California Academy of Sciences, San Francisco, CA; American Museum of Natural History, New York, NY.

William T. Stanley
Fieldwork: Ruaha National Park, Tanzania.
Research: United States National Museum, Washington, D.C.; Southern Highlands Conservation Project, Mbeya, Tanzania; University of Dar es Salaam, Tanzania.

Kevin Swagel
Fieldwork: Wisconsin.

Margaret K. Thayer
Fieldwork: Oregon, California.
Research: Orlando, FL; Chattanooga, TN; Verona, Genoa, and Florence, Italy; Gainesville, FL.

Jason D. Weckstein
Research: Oklahoma State University, Stillwater, OK; Illinois Natural History Survey, Champaign, IL.

Mark W. Westneat
Fieldwork: Papua New Guinea; Kauai, HI; Lake Michigan.
Research: Papua New Guinea; Kauai, HI; Western Kentucky University, Bowling Green, KY.

BIODIVERSITY SYNTHESIS CENTER

Torsten Dikow
Fieldwork: Indiana Dunes State Park, IN; Manaus, Brazil; Canberra, Australia; Perth, Australia.
Research: Urbana-Champaign, IL; Canberra, Australia; Sydney, Australia; Perth, Australia; Sao Paolo, Brazil; Riberao Preto, Brazil; Manaus, Brazil.

Joshua Drew
Fieldwork: Papua New Guinea, Fiji.

Richard Ree
Fieldwork: Huangdong Mountains, China.

Mark W. Westneat
Fieldwork: Papua New Guinea.

PUBLIC EDUCATION AND OUTREACH, 2011

DEPARTMENT OF ANTHROPOLOGY

J. P. Brown
Exhibit Development: Lead Conservator, *Maori House*; Lead Conservator, *Opening the Vaults: Mummies;* Environmental Conservator, *Abbott Hall of Conservation;* Conservator, *Whales*; Conservator, *Natural Wonders: A Roman Mosaic from Lod, Israel.*
Public Presentations: Anthropology Alliance; Annual Fund; Members' Nights; President's Leadership Council; Field Ambassadors.
Education Programs: "Conservation 101" for Chicago Cultural Alliance.
Web and New Media: The Field Revealed C&R video series: voice-over for "Dear Benjamin Walsh, commentary and images for "Conserving Sticky," images and video for "Poster Girl: The Mummy."
Media Development: Interviews: WGN, NBC, WBBM, *Chicago Sun-Times*.
Other: Behind-the-scenes tours, Education department, visiting scientists, Trustees, etc.

Laure Dussubieux
Education Programs: Field Museum Members' Nights.

Gary Feinman
Exhibition Development: *Chocolate Around the World*, The Field Museum; Image and content provider, exhibit on *Lyobaa: Fiesta viva de los muertos en Mitla*, Mitla, Mexico; Content provider, exhibit of *National Geographic* photos of El Palmillo at the Templo Mayor in Mexico City.
Public Presentations: Lecturer, *Chocolate Around the World*, for members; Docent training, *Chocolate Around the World*, The Field Museum; Presenter, *Chocolate Around the World*, to staff, The Field Museum; Presenter, *Ancient Americas*, 5th 3rd Bank, Chicago; Lecturer, recent findings at the Mitla Fortress at CECYTE and La Secundaria in Mitla, Mexico; Coffee with Curators, Anthropology Alliance, The Field Museum.
Media Development: Press on Mitla Fortress research; Interviews, Radio: Zapoteca (4), Televisa, Reuters; web: Wired Science/Wired.com, Népszabadságonline, Hungary; Múlt-kor történelmi portal, Hungary; Press on Jiaonan survey; Interview, Jiaonan television; Press on work with US Customs agents; interview on WBBM radio; The Archaeology News Network, Chicago.cbslocal.com; Press on *Chocolate Around the World*; suntimes.com, southtownstar.com, The Mini Page, Chocolate University Online, breakfast lecture on chocolate to members posted online; Interviewed for movie on Cultural Preservation, by Craig Klein of Catatumbo-Sky;
Web and New Media: Electronic field trip, emails from the field (Mexico); Contributions to Artifact of the Week on TFM Facebook page; Science@FMNH podcasts (Maya Blue, The Archaeology of Trade and Exchange, Economic Archaeology).
Other: Behind-the-scenes tours for Museum members, visiting scholars, visiting VIPS, etc.

Mark Golitko
Education Programs: Field Museum Members' Nights.

Jonathan Haas
Media Development: Interviews, National Public Radio.
Public Presentations: "The Role of the Curator in the 21st Century," Anthropology Alliance; Current research on the coast of Peru, Founders' Council.

Dilyana Ivanova
Public Presentations: Presenter, "America for Bulgaria Foundation Archaeological Programs at The Field Museum in Chicago," Bulgarian Days in Chicago Festival; "Archaeological and Anthropological Grant Opportunities in Bulgaria," The Field Museum, Chicago, IL.

Media Development: Web presentation, The America for Bulgaria Foundation Archaeological Programs at The Field Museum in Chicago: http://www.eurochicago.com/; Press on "Night of Bulgarian Archaeology at The Field Museum," article in *Bulgaria Weekly*; interview in *Bulgaria Sega.*
Web and New Media: Archaeological and Anthropological Grant Opportunities In Bulgaria on *fieldmuseum.org*; Facebook group page of the Archaeological and Anthropological Grant Opportunities in Bulgaria.
Other: Coordination of behind-the-scenes tours and guided tours for Bulgarian officials; Organization of the "Night of Bulgarian Archaeology at the Field Museum."

Jamie Kelly
Education Programs: Field Museum Members' Nights.
Other: Behind-the-scenes tours for Institutional Advancement, Group Sales, Administration, Auxiliary Groups, Museum Members, visiting specialists, visiting VIPs; Anthropology Alliance events.

Debbie Linn
Education Programs: Lecturer, The University of Chicago, Graham School, Artifact Collection Care Program; Lecturer, The Chicago Cultural Alliance.

Robert D. Martin
Education Programs: Field Museum Members' Nights.
Exhibit Development: Lead Curator, *Mummies from the Vault*; Lead Curator, 3-D scanning exhibit in Brooker Gallery; Advisory Curator, *Lascaux*.
Other: Educator Open House, Education Department; Field Museum Members' Nights; Anthropology Alliance events; Council on Africa events.

Linda Nicholas
Exhibition Development: Image and content provider, exhibit on *Lyobaa: Fiesta viva de los muertos en Mitla*, Mitla, Mexico; Content provider, exhibit of National Geographic photos of El Palmillo at the Templo Mayor in Mexico City.
Web and New Media: Digital image provider, G. Feinman's electronic field trips (Mexico).
Public Presentations: Lecturer, recent findings at the Mitla Fortress at CECYTE and La Secundaria in Mitla, Mexico; Coffee with Curators, Anthropology Alliance, The Field Museum.
Media Development: Press on Mitla Fortress research: interviews on Radio Zapoteca (four), Televisa, Reuters; web: Wired Science/Wired.com, Népszabadságonline (Hungary), Múlt-kor történelmi portál (Hungary); Press on Jiaonan survey: interview on Jiaonan television.

William A. Parkinson
Exhibit Development: Lead Curator, *Genghis Khan*; Curator, *Natural Wonders: A Roman Mosaic from Lod, Israel*; Committee Member, Egypt Hall Exhibit Planning Team.
Education Programs: Field Museum Members' Nights; Behind-the-scenes tours for Irving Elementary School, Oak Park, IL.
Public Presentations: "Early Village Social Dynamics", Invited lecture presented to the Museum of Anthropology, University of Michigan, Ann Arbor, MI; "Early Village Social Dynamics", Invited lecture presented to the Department of Anthropology, Michigan State University, Lansing, MI; "Early European Villages: The Building Blocks of Western Civilization," Invited lecture presented at the Archaeological Institute of America Fall Event, Chicago, IL; "The Age of Metal and the Emergence of European Civilization," Invited Lecturer, the School for Advanced Research, Santa Fe, NM.
Web and New Media: *Expeditions@fieldmuseum.org*, Uncovering Early Village Life in Southeastern Europe: The Körös Regional Archaeological Project.
Other: Behind-the-scenes tours for Institutional Advancement, Anthropology Alliance, visiting VIPs, etc.

Christopher J. Philipp
Public Presentations: American Samoa Community College, Tutuila, American Samoa; October Annual Fund Event; February Women's Board Event.
Other: Behind-the-scenes tours: Institutional Advancement, Group Sales, Administration, Auxiliary Groups, Museum Members, visiting specialists, visiting VIPs, Anthropology Alliance, numerous school and university groups.

James L. Phillips
Exhibit Development: Lead Curator, *The Horse*; Lead Curator, *Natural Wonders: A Roman Mosaic from Lod, Israel*; Lead Curator, Egypt Hall Exhibit Renovation.
Other: Lead Field Museum Donor Tour to Turkey; Director, Iraq Cultural Heritage Project.

John Edward Terrell
Public Presentations: Presenter, "The Friendship Hypothesis," TEDx talk presented at Allstate corporate headquarters, Northbrook, IL.
Other: Presentations for Institutional Advancement.

Alaka Wali
Exhibit Development: Curatorial Liaison, *360 – September 11, 2001;* Curatorial Liaison, *Bloodstones;* Content Development Specialist, *Restoring Earth*.
Public Presentations: Anthropology Alliance; Annual Meeting of the American Bar Association Educational Committee; Ethical Humanists Society of Chicago.
Web and New Media: Redesign of the Anthropology pages on the North America Anthropology Collections.
Other: Behind-the-scenes tours for Institutional Advancement; New Trustee Orientations.

Patrick Ryan Williams
Exhibit Development: Member, Egypt Hall Planning Committee; Member, China Hall Planning Committee; Content Advisor, Mummies Temporary Exhibits.
Education Programs: Contisuyo Archaeological Field School, Moquegua, Peru.

DEPARTMENT OF BOTANY

Mark Alvey
Education Programs: Field Museum Members' Nights
Other: Numerous behind-the-scenes tours for school groups, families, and individuals.

Anna Balla
Education Programs: Field Museum Members' Nights.

Laura Briscoe
Education Programs: Field Museum Members' Nights.

William Burger
Education Programs: Field Museum Members' Nights.

Michael O. Dillon
Web and New Media: Developer and Webmaster, Andean Botanical Information System, *ABIS* (www.sacha.org).

Darlene Dowdy-Pritchett
Education Programs: Field Museum Members' Nights.

Krysta Duran
Education Programs: Field Museum Members' Nights.

Sabine Huhndorf
Education Programs: Field Museum Members' Nights.

Maria Lucia Kawasaki
Education Programs: Field Museum Members' Nights.

Patrick Leacock
Education Programs: Field Museum Members' Nights; Instructor, Fungi of Northern Illinois, Morton Arboretum Naturalist Certification Program; Calumet Is My Back Yard (CIMBY) Science Summit.
Public Presentations: Invited programs: Illinois Mycological Association, Chicago, IL; Mycological Association of Washington, Washington D.C.
Tours and Field Trips: Field trips, Illinois Mycological Association.
Web and New Media: Content developer, North American Mycological Association Voucher Program website.

Robert Lücking
Education Programs: Field Museum Members' Nights; Lichen display at the Annual Fund "Behind the Scenes" event, Weinberg Gallery, Chicago.

Thorsten Lumbsch
Education Programs: Chicago Public Schools Teacher workshop; Educator Open House, Field Museum; Field Museum Members' Nights, numerous behind-the-scenes tours.
Other: Behind-the-scenes tours for donors, Trustees, and other VIPS.

Joanna McCaffrey
Education Programs: Field Museum Members' Nights.
Other: Demonstrations of digitization/scanning facilities to various visitors, classes, donors, VIPS, etc.

Christine Niezgoda
Education Programs: Field Museum Members' Nights.
Other: Herbarium tours for Carole Robertson Center, Field Museum Trustees, Annual Fund members, and other Institutional Advancement constituents.

Richard Ree
Web and New Media: Developer, Biodiversity of the Hengduan Mountains web site/database; Lagrange software for historical biogeographical inference; Ivy, software for interactive phylogenetic analysis.
Public Presentations: Founders' Council.

Matt von Konrat
Education Programs: Field Museum Members' Nights.
Public Presentations: (Spring and Fall) Lincoln Park Conservatory, Chicago Park District, Chicago; Educator Open House, Field Museum.
Web Projects: Editor, *Liverworts*, The New Zealand Plant Conservation Network (www.nzpcn.org.nz); Editor, *Bryophytes*, DiscoverLife (www.discoverlife.org/bryophyta); Developer and Editor of the GBIF funded Early Land Plants Today (http://www.early-land-plants-today.org); Contributor, www.biology.duke.edu/bryology/LiToL/.
Other: Various behind-the-scenes tours.

DEPARTMENT OF GEOLOGY

Kenneth D. Angielczyk
Education Programs: Field Museum Members' Nights.
Media Development: Quoted in article by wired.com, (http://www.wired.com/wiredscience/2011/10/permian-extinction-dynamics/).
Other: Various collection tours and presentations for donors and distinguished guests, students and interns; Speaker at Founders' Council event; Presentation/tour for representatives of the Efroymson Family Foundation.
Web and New Media: Fieldwork in Zambia featured in episodes 44, 45, and 46 of the Science@FMNH podcast series.

Ian Glasspool
Education Programs: "Fossil Plant Lab" Cornell College, Mt. Vernon, IA and Roosevelt University, Chicago held at The Field Museum.
Exhibition Development: Content advisor, *Restoring Earth*.
Web and New Media: Geology and Paleobotany websites, content developer and publisher.
Other: Behind-the-scenes tours, donors, university groups; fossil identification for members of the public.

Lance Grande
Education Programs: Field Museum Members' Nights.
Exhibition Development: Updates and revisions to the *Grainger Hall of Gems*.

Philipp R. Heck
Education Programs: Field Museum Members' Nights; Field Ambassador Program; Education Open House.
Exhibition Development: Content advisor, public display case for the Mifflin Meteorite from Wisconsin; New display case in the Robert A. Pritzker Center for Meteoritics and Polar Studies.
Web and New Media: Content provider and maintenance of websites (Google Sites and Field Museum) for the Robert A. Pritzker Center for Meteoritics and Polar Studies.
Other: Speaker, Founders' Council Founders' Frontier event; Speaker, "Cosmic Collisions" joint Adler Planetarium and Field Museum event; Freedom Gala, Pritzker Military Library; First French-American Science Festival organized by the Consulate General of France in Chicago; Meteorite identification service for the general public; Behind-the-scenes tours of the Robert A. Pritzker Center for Meteoritics and Polar Studies: donors, graduate, undergraduate and high-school students, visiting scientists.

James L. Holstein
Education Programs: Field Museum Members' Nights; Dozin' with the Dinos workshop.
Media Development: "How to Survive and Asteroid Impact" on *How to do Everything*, NPR podcast.
Public Presentations: 1st annual French-American Science Festival.
Other: 20th Century Chinese Trade Delegation Tour; University of Illinois at Chicago Earth and Environmental Science tour; Various tours for students, donors; Teaching Assistant, "Stones and Bones: A Practicum in Paleontology," Graham School of General Studies, the University of Chicago.

Melanie J. Hopkins
Education Programs: Paleontology workshop leader for "Dozin' with the Dinos" visitor overnight program; Geology instructor for Boy Scout Badge Day; Demonstration training, Teen Summer Program ("Fossils in the Floor"); Field Museum Members' Nights.
Web and New Media: Science@FMNH podcast series.

Scott Lidgard
Education Programs: Field Museum Members' Nights.

Web and New Media: Creator, *BryoZone* (http://www.bryozone.net), an interactive global database and website.
Other: Behind-the-scenes tours to visiting scientists and several college and university biology and geology classes.

Peter J. Makovicky
Education Programs: Interview, voice-over and content provider for Digital Planet, virtual summer camp for high school students.
Web and New Media: Content provider, dispatch author, video producer for *Expeditions@fieldmuseum.org* and Science@FMNH podcasts related to Antarctic fieldwork.
Media Development: Extensive news coverage in national and international media outlets related to publication of *PLoS One* paper on *T. rex* and growth.

Paul S. Mayer
Education Programs: Presenter, Edward Ayer Society Luncheon and other museum events; Flat Stanley virtual visit and tour.
Web and New Media: Featured Scientist, The Field Revealed video series, "The Tully Monster"; Collections video and web slide show for *Restoring Earth*.
Public Presentation: Des Plaines Earth Science Club (two presentations); Earth Science Club of Northern Illinois; On-site lectures for K–12 and university classes.
Other: Behind-the-scenes tours; Fossil identification for members of the public.

Olivier Rieppel
Education Programs: Field Museum Members' Nights.

Akiko Shinya
Education Programs: Field Museum Members' Nights; Dozin' with the Dinos.
Exhibit Development: Specimen conservation, *Mammoths and Mastodons*.
Other: Various Behind-the-scenes collection and lab tours; Teaching assistant, "Stones and Bones: A Practicum in Paleontology," Graham School of General Studies, the University of Chicago.

William F. Simpson
Education Programs: Field Museum Members' Nights.
Exhibit Development: Content Advisor, *The Horse* and *Extreme Mammals* traveling exhibits.
Media Development: Various media interviews on paleontology.
Public Presentations: Lecturer and Tour guide, Bureau Valley Dean's List science majors, Speaker for a Make-A-Wish event.
Other: Various behind-the-scenes tours: donors, Institutional Advancement tours, Founders' Council, Women's' Board, university groups; Intern tours, Fossil identification for members of the public.

Paul P. Sipiera
Education Programs: Field Museum Members' Nights.
Public Presentations: Weekly public astronomical viewing session provider, Apple River State Historic Site in Elizabeth, IL; Host for an interactive educational display of dinosaur fossils at the Apple River Fort State Historic Site's Education Day, Elizabeth, IL; Demonstrator, Meteorites display, JETS Astronomical Observatory, and the Northwest Illinois Rock Club, Highland Community College in Freeport, IL.
Media Development: Featured scientific expert, Frank Carmichael Radio Program broadcasts on station WLIP in Kenosha, WI.

Nathan D. Smith
Education Programs: Lecture, Q&A, video and photo content for Digital Planet: Antarctica! (http://nliconnect.org/field-museum/digital-planet/digital-planet-antarctica), virtual summer camp for high school students.

Public Presentations: “Dinosaurs on Ice: Hunting for Fossil Vertebrates in the Jurassic of Antarctica.”
Web and New Media: Interview, video and photo content for Science@FMNH, four separate podcasts focused on Antarctic paleontology.
Other: Tour guide, collections and research facilities, Schaumburg High School students.

Constance Van Beek
Education Programs: Field Museum Members’ Nights; Dozin’ with the Dinos Overnights.
Media Development: Various media interviews on fieldwork, preparation.
Web and New Media: Field Museum web content for Geology Department.
Other: Various behind-the-scenes tours, private tours for donors and special guests; Geology clubs, Scouts groups and teachers’ groups; fossil identification for visitors; Teaching Assistant, “Stones and Bones: A Practicum in Paleontology,” Graham School of General Studies, the University of Chicago.

Lindsay E. Zanno
Public Presentations: STEM seminar, REAL Middle School, Racine Wisconsin: “Dinosaur Biology”.
Media Development: Media Interviews on press releases of new dinosaur research published in *PLoS One* with international syndication in newspapers and websites; Science advisory for BBC production “Planet Dinosaur”; Science advisory for the History Channel production “Evolution”; On-Air science consultant, The Learning Channel “What the Sell?!”; Radio interviews for new raptor dinosaur *Talos sampsoni*, Wisconsin Public Radio; National Public Radio, *Weekend Edition*; Fox 6 news (WITI); National Public Radio, Clever Apes—*Top Dinosaur Myths.*
Other: Behind-the-scenes tours: donors, university groups (Biology Club UW-Parkside); Women’s Board Luncheon, Field Museum.

DEPARTMENT OF ZOOLOGY

John M. Bates
Exhibit Development: Collections and Research lead content advisor, *Restoring Earth*; Content advisor, *Natural Wonders: A Roman Mosaic from Lod, Israel*; Content Advisor, *Nature’s Toolbox*; Content Advisor, Bird Hall renovations.
Education Programs: Field Museum Members' Nights, DePaul University Architecture class, Iowa Sate University Architecture Class; Lawrence University African Policy Class; Columbia University Communications Course; University of Chicago, Introduction to Field Museum Course; University of Chicago Graduate Ethics course.
Media Development: Interview, WGN radio; interview, WBEZ radio; Content Advisor, *National Geographic* magazine.
Web and New Media: Content Specialist, Department of Zoology, TFM website redesign project; Content Specialist, “Bird Division Research in Africa” web site; Content Specialist, African Biodiversity Training Program web site, Content Specialist, *Expeditions@fieldmuseum.org* Amazonia; Content Specialist, Science@FMNH; Content Specialist, Explore Science; Content Specialist, FMNH Facebook “Bird of the Week.”
Other: Seiben Energy Summer Intern tour, Simmons Family; various collection tours and presentations about the Department of Zoology and the Bird Division.

Rüdiger Bieler
Exhibit Development: Featured Curator, *Restoring Earth;* Co-developer, *Science on the Half-shell* traveling exhibition; Use of field and laboratory photographs in various exhibition projects.
Web and New Media: Featured scientist, two Science@FMNH videos: *Human Impact on Ecosystems* and *Biodiversity of Marine Mollusks in the Florida Keys;* Developer, bivalve-focused web sites: www.bivatol.org, www.bivatol.org/bits and gastropod-focused site: vermetus.org; Further development of Malacological Journals and Newsletters (http://emuweb.fieldmuseum.org/iz/journals.php) web sites; Advisory Board member, Grzimek’s Encyclopedia of Animal Life on the Web.

Other: Various behind-the-scenes tours for visiting VIPs, etc.

James H. Boone
Exhibit Development: Content Specialist, *Restoring Earth* and *Bugs Outside the Box*, *Discover the Elegance Within the Science*, an external exhibit produced by ©Outhouse Exhibit Services.
Education Programs: Field Museum Members' Nights.
Web and New Media: Content Specialist, Division of Insects web page; Contributor, "Insect of the Week," Field Museum Facebook feature.
Other: Developer, Insect staff display case; behind-the-scenes tours for Institutional Advancement, new employees, students, visiting specialists.

Dave J. Clarke
Public Presentation: Founders' Frontiers Symposium and Dinner, Graduate Students of the Field.

Joshua I. Engel
Education Programs: Field Museum Members' Night; Presenter, Mather LifeWays; Presenter, Lake-Cook Audubon Society, Evanston North Shore Bird Club, and Kane County Audubon Society.
Media Development: Interview, Northwestern University graduate students about birds and climate change.
Other: "Behind-the-scenes" tours of Bird Division; Docent Trainer, Bird Division's parasite and pathogens work; Guide, field trips for Evanston North Shore Bird Club and Illinois Young Birders Club.

Jochen Gerber
Education Programs: Field Museum Members' Nights.
Other: Various behind-the-scenes collections tours; Trail Creek Watershed BioBlitz, Michigan City, IN.

Steven M. Goodman
Media Development: Newspaper interview, La Monde, Radio interview, Radio France; International, several Malagasy radio stations; Television interview, Malagasy Broadcasting Company, France 5; magazine interviews and corrections, National Geographic.

Shannon J. Hackett
Exhibit Development: Curator, *DNA Discovery Center*.
Education Programs: Field Museum Members' Nights; Education programs, changing nature of science for science teachers; Education Programmer, *DNA Discovery Center*; Education programmer, home school students, Field Museum; *DNA Discovery Center* high school and teacher internship program, Field Museum; NIH collaboration with University of Chicago to create systems biology, evolution, and genomics programs; Education Teacher Training Workshops on birds, systematics, and evolution.
Public Presentations: Talk to the Scientist Hour in the *DNA Discovery Center*; Presenter, Lake County Audubon Society; Presenter, Evanston Bird Club.
Media Development: Interview and weeklong internship for Medill School of Journalism students, Northwestern University.
Web and New Media: Member, Project Sponsor's Group; *fieldmuseum.org* re-development project; Content Specialist, *DNA Discovery Center* web site; Content Specialist, Pritzker Lab web site; Content Specialist, *Early Bird Tree of Life* web site; Content Specialist, *DNA Discovery Center*'s Facebook page; Content Specialist, Science@FMNH; Content Specialist, FMNH Facebook "Bird of the Week."
Other: Various collection tours and presentations about the Department of Zoology, Pritzker Laboratory, and the Bird Division; SUElebration DNA Day with Ertlers; meeting with Stephen Wolfram.

Lawrence R. Heaney
Education Programs: Field Museum Members' Nights.
Media Development: Discovery of seven new species of Philippine mammals, articles in Chicago Tribune and ca. 20 newspapers and many websites globally.

Exhibit Development: Content Specialist, “Islands” in *Restoring Earth*; Active participant in “Collections” section.
Special Tours: Senator Eduardo Angara and Consul General Leo Herrera-Lim, Philippines.
Other: Behind-the-scenes tours, of research and collection areas for Institutional Advancement.

Mary Hennen
Educational Programs: Field Museum Members’ Nights; Dozin’ with the Dinos; Bell Elementary School. Roots & Shoots Youth Summit, Museum of Science and Industry; Brook Park School; Illinois Wesleyan University; University of Wisconsin, Stevens Point Alumni; Waukegan Park District; Morton Arboretum.
Media Development: Television interviews: ABC7 Evening News TV, Elgin Courier News; Newspaper interview, *Chicago Tribune*; Magazine interview, *Bird Watching* Magazine.
Other: Various Behind-the-scenes tours, Group Sales, 95% Share.

Robert F. Inger
Education Programs: Field Museum Members’ Nights.

Janeen Jones
Education Programs: Field Museum Members’ Nights; Presenter, specimens for Women’s Board Outreach Luncheon.
Exhibit Development: Advisor, *Restoring Earth*.
Web and New Media: Web Publisher, redeveloped Malacologia, PEET Bivalves micro-sites; Content Contributor, Specimania iOS App.
Other: Docent Tour; Various behind-the-scenes collection tours; Collections Database Consultant: Oriental Institute; American Museum of Natural History; The Henry Ford Museum.

Kathleen Kelly
Exhibit Development: Developer, *Restoring Earth*.
Education Programs: Field Museum Members’ Nights.
Public Presentations: Women’s Board Outreach Luncheon exhibit presenter.
Web and New Media: Content Specialist, Amphibians and Reptiles Divisional website.
Other: Co-leader, Behind-the-scenes tour of Field Museum CRC wet collections for Association of Midwest Museums’ conference participants; Women’s Board Quarterly Meeting collection tour; Divisional behind-the-scenes tour and open house for museum staff; Behind-the-scenes tours for Institutional Advancement, Women’s’ Board, visiting VIPs, Auxiliary Groups, college courses.

James Louderman
Education Programs: Field Museum Members’ Nights; Dozin With the Dino’s Overnights; Guide, Elementary Schools, Middle Schools, High School and Preschool; Undergraduate programs; Outreach Programs; Teacher Education Programs; Group Sales and Education programs; NGS/NPS BioBlitz 2011 and Michigan City Parks Department BioBlitz.
Other: Numerous behind-the-scenes tours for Institutional Advancement, new Trustees, visiting V.I.P.s.

Susan F. Mochel
Education Programs: Field Museum Members’ Nights; Fishes collections, Women’s Board Luncheon Exhibit.
Other: Various tours of Fishes Division collections.

Corrie S. Moreau
Exhibit Development: Lead Curator, *The Romance of Ants.*
Education Programs: University of Chicago’s Urban Teacher Education Program (UTEP) Participant; Lecturer for Early Elementary Science Partnership (E2SP) program; Instructor and Presenter, Ant Course, Southwest Research Station in Portal, AZ.

Public Presentations: Co-leader for "Cultivating Curiosity" workshop as part of "Families First" series; Co-leader for IMLS funded "Parents as Educators" workshop as part of "Investigations into Science" series; School for the Art Institute of Chicago's entomology course presenter.
Media Development: Interview, *The Scientist,* print and online article on freely available and reliable phylogenetic software for novice users; *The Romance of Ants* media coverage: Interview, *American Scientist* magazine, print and online article; "Buzz of the Week" on the Entomological Society of America website; Interview, Wisconsin Public Radio's Ideas Network; Interview, Medill Reports.
Web and New Media: Featured Scientist, The Field Revealed video series "Turtle Ants"; Interview, Science@FMNH video podcast series; Interview, *Romance of Ants* website; AntWeb–AntBlog "expert"; Personal website, *fieldmuseum.org*; Ant Genomics website.
Other: Various collection tours and presentations about the *DNA Discovery Center* and Division of Insects.

Alfred F. Newton
Web and New Media: Database developer, NSF-PEET project *Austral Staphylinidae* website.

Bruce D. Patterson
Exhibit Development: Co-curator, *Whales*; Content Advisor, *Natural Wonders: A Roman Mosaic from Lod, Israel*; Co-curator, *Extreme Mammals*.
Education Programs: Docent lecturer and tour guide on International Serengeti Day; Field Museum Members' Night; Museology Explorers lecture.
Public Presentations: Presenter at Fox Run Retirement Community, Orchard Park NY.
Tours and Field Trips: Tour Guide of southern Tanzania and Rwanda (aborted).
Web and New Media: personal pages (Google site); Council on Africa (Google site); IDP/FMNH African Training Program (Google site).
Other: Presenter, President's Leadership Council.

Julian C. Kerbis Peterhans
Education Programs: Field Museum Members' Nights.
Web and New Media: Guide, Federico Pardo on-site videographer, Mt. Gorongosa, Mozambique.
Media Development: Consultant, *National Geographic* Magazine, November 2011 issue on Albertine Rift.

Martin D. Pryzdia
Education Programs: Field Museum Members' Nights.

Alan Resetar
Exhibit Development: *Restoring Earth*.
Education Programs: Field Museum Members' Nights; Co-leader, Chicago Wilderness Calling Frog Survey Workshop, South Holland, IL.
Public Presentations: Presenter, Field Museum booth at "Reptile Rampage" (sponsored by the City of Lake Forest, Wildlife Discovery Center, Lake Forest, Illinois); Presenter, Komodo Night in Chicago, Navy Pier.
Web and New Media: Content Specialist, Amphibians and Reptiles Divisional web site.
Tours and Field Trips: Herp survey team leader, Trail Creek Watershed BioBlitz, Michigan City, Indiana; Herp team member, reptile and amphibian survey of Kilcollin wetland, Michigan.
Other: Co-leader, behind-the-scenes tour of Field Museum CRC wet collections for Association of Midwest Museums' conference participants.

André F. Sartori
Education Programs: Field Museum Members' Nights.
Web and New Media: Curator, Encyclopedia of Life.

Petra Sierwald
Web and New Media: Web-based Education Life Desk manual for Instructors and students for the production of Taxon Pages, Encyclopedia of Life; Advisory Board chair for Invertebrate classification, Grzimek's Encyclopedia of Animal Life on the Web; Advisory Board member, Grzimek's Encyclopedia of Animal Life on the Web for Arachnida and Myriapoda.
Other: Various behind-the-scenes tours for visiting VIPs, etc.

W. Leo Smith
Education Programs: Presenter, Women's Board Luncheon; Advisor, NSF Research Experience for Undergraduate internships; Field Museum Members' Nights.
Exhibit Development: Advisor, *Natural Wonders: A Roman Mosaic from Lod, Israel*.
Media Development: Interviews: National Public Radio.
Public Presentations: Presenter, Meet the Scientist Hour, *DNA Discovery Center*.
Other: Behind-the-scenes tours for Education department and institutional advancement, visiting scientists, VIPs, etc.

William T. Stanley
Exhibit Development: Advisor, Conservation Exhibit.
Education Programs: Field Museum Members' Nights; Tanzanian educational outreach products (posters, calendars, booklets); TedX event at Allstate Insurance Company; WBEZ Clever Apes-Dermestid beetles; WBEZ Clever Apes-Haplotypes and kipunji; "Whales" on ABC 7 Windy City Live; "The Battle for Bats" on WTTW's *Chicago Tonight*; Introduction to "The Battle for Bats" symposium on White Nose Syndrome.
Tours and Field Trips: Tour Leader, Field Museum Tanzania Safari.
Web and New Media: Developer, *Mammals of Tanzania*; Developer, Field Museum Division of Mammals Website; Content Provider, "Mammal Mondays" on FMNH Facebook page.
Other: Myriad Behind-the-scenes tours for Field Museum Board members; Institutional Advancement, new Trustees, visiting VIPs, etc.

Sid E. Staubach
Education Programs: Field Museums REU Internship program, Roosevelt University Internship program (Spring/Autumn).

Kevin Swagel
Education Programs: Field Museum Members' Nights; Field Museum Behind-The-Scenes; Guide, Lead 2011 Calumet Is My Back Yard (CIMBY) Summit tour; Guide, Institutional Advancement The Field Associates program; Women's Board Luncheon exhibit; Guide, visiting classes.
Other: Behind-the-scenes tours for a variety of groups and individuals.

Margaret K. Thayer
Education Programs: Field Museum Members' Nights.
Web and New Media: Featured Specialist, The Field Revealed video series, "Fossil Carrion Feeders"; Content Provider, Specimania iOS App.
Public Presentation: Founders' Frontiers Symposium and Dinner, Graduate Students of the Field.

Janet R. Voight
Education Programs: Field Museum Members' Nights
Public Presentations: Lecturer, Loop Luncheon for Founders' Council, The Field Museum; Media Presentation for Edward Ayers Society, The Field Museum; Invited Lecturer, Women's Board Out-Reach Luncheon.
Exhibit Development: Content Provider, images and expertise to Exhibit developer at Australian Museum in Sydney, for a new exhibition on Deep Oceans.
Web and New Media: Editor, *Fieldiana* web pages; Content provider, Specimania iOS App.
Other: Various behind-the-scenes tours.

Jason D. Weckstein
Education Programs: Lecturer, Posse Immersion Day, for at-risk youth entering college for the first time.
Media Development: Interview, various reporters about the Field Museum's Emerging Pathogens Project; Guide, Northwestern University Journalism practicum students.
Web and New Media: Four Science@FMNH podcasts focused on the Emerging Pathogens Project; Developer, *expeditions@fieldmuseum.org* site.
Other: Interview, Alcott Elementary School student (4th grade) for a report on birds; Docent training, Emerging Pathogens Project; Collections tour, Roosevelt University biology students; Various impromptu preparation room presentations about birds and their ectoparasites and Behind-the-scenes tours of Bird Division.

Mark W. Westneat
Education Programs: WhyReef, Encyclopedia of Life, IGERT Training program.
Web Projects: Research web site, software development, Encyclopedia of Life, Biodiversity Synthesis Center.
Media Development: MacArthur HASTAC videos, Science@FMNH videos, Interviews for *Restoring Earth*.
Other: Behind-the-scenes tours for Institutional Advancement, prospective donors, Collections and Research Board members, visiting classes.

BIODIVERSITY SYNTHESIS CENTER

Audrey Aronowsky
Education Programs: Field Museum Members' Nights; Education Open House: Facilitator for Digital Media Table; Facilitator, I Dig Brazil digital learning program.
Web and New Media: Manager, Science@FMNH podcast and video series.
Other: Behind-the-scenes tours for Institutional Advancement, prospective donors, visiting classes.

Christopher Baron
Web and New Media: Developer, synthesis website; Developer, interactive component of *Ground Zero 360* temporary exhibit.

Torsten Dikow
Education Programs: Field Museum Members' Nights.

Joshua Drew
Education Programs: Field Museum Members' Nights.
Informal Education: Facilitator, Conservation Connection digital learning program; Presenter, Global Science Seminars for CoolHub.

Sarah Kim
Education Programs: Field Museum Members' Nights.

Beth Sanzenbacher
Education Programs: Field Museum Members' Nights; Education Open House: Facilitator for Digital Media Table; Guest Facilitator: Museology; Lead Facilitator, Conservation Connection digital learning program; Lead Facilitator, Conservation Connection digital learning program; Facilitator, Global Science Seminars for CoolHub; Presenter, High School Transformation Project; Presenter, Nature Conservancy Grasslands Restoration Unit.
Web and New Media: Manager, Science@FMNH podcast and video series; Developer, synthesis website.
Other: Behind-the-scenes tours for Institutional Advancement, prospective donors, visiting classes.

Kristopher Urie
Web and New Media: Developer, synthesis website; Developer, Encyclopedia of Life.

Mark W. Westneat
Web and New Media: Developer, research web site, software development, Developer for Encyclopedia of Life.
Other: Behind-the-scenes tours for Institutional Advancement, prospective donors, visiting classes.

LIBRARY

Melissa Anderson
Education Programs: Field Museum Members' Nights.
Other: Behind-the-scenes tour for Illinois Library Association.

Karen Bean
Education Programs: Field Museum Members' Nights; Presentation on skills training for 2011 Youth Design Team.
Other: Behind-the-scenes tours and demonstrations for school groups.

Nina Cummings
Education Programs: Field Museum Members' Nights.

Diana Duncan
Education Programs: Field Museum Members' Nights.
Other: Various Library and Rare Book Room tours.

Armand Esai
Education Programs: Field Museum Members' Nights.

Christine Giannoni
Education Programs: Field Museum Members' Nights.
Other: Behind-the-scenes tours for visiting scientists, VIP's.

Michael Trombley
Education Programs: Field Museum Members' Nights.

PRITZKER LABORATORY FOR MOLECULAR SYSTEMAATICS AND EVOLUTION

Kevin A. Feldheim
Education Programs: *DNA Discovery Center* High School and Teacher Internship program.
Web and New Media: Content Specialist, *DNA Discovery Center* website; Content Specialist, Pritzker Lab website.
Other: Various behind-the-scenes collections tours.

Erin Sackett-Hermann
Web Projects: Content Specialist, *DNA Discovery Center* website; Content Specialist, Pritzker Lab website; *DNA Discovery Center* Facebook page.
Other: Various behind-the-scenes collections tours.

Erica Zahnle
Education Programs: *DNA Discovery Center* High School and Teacher Internship program; Education Programming *Extreme Extraction:* DNA In The Palm of Your Hand, The Dynamics of DNA, *DNA Discovery Center* exhibition; Manager, Systems Biology Exploration Camp, and Teaching Systems Biology and Genetics Through Inquiry.
Web Projects: Content Specialist, *DNA Discovery Center* website; Content Specialist, Pritzker Lab website; *DNA Discovery Center* Facebook page.
Other: Various behind-the-scenes collections tours.

OFFICE OF COLLECTIONS AND RESEARCH

Carter O'Brien
Web and New Media: Content Manager: A Greener Field websites on *fieldmuseum.org*, Facebook; Music Producer: The Field Revealed videos "Specimania," "Plant Mounting," "Out Takes 2011."
Other: Coordinator, behind-the-scenes tour for group from American Association of Museums; Coordinator, visit from Belgium Museum delegation; Coordinator, Trustee tours of C&R.

Federico Pardo
Web and New Media: Producer, The Field Revealed video series: "Fossil Carrion Feeders," "A Bird of Paradise with John Bates," "Na Bula, Fiji's Crown of Thorns," "Turtle Ants," "Dear Benjamin Walsh," "The Tully Monster," "Frozen Fruit Bats," "Conserving Sticky," "Kiki's Gems," "Fossils, Rocks & Akiko," "Meet Kipunji," "Night Shift with Mr. Harwa," "Gilded Lady, The Mummy," "The X-Ray Flourescence Lab," "Cloud Rat," "Specimania," "Plant Mounting," "Out Takes 2011."

HIGHER EDUCATION, 2011

(College/University Teaching, Graduate Advising, Internships, etc.)

DEPARTMENT OF ANTHROPOLOGY

Douglas Bolender
Undergraduate Students Advised: John Crain, David Hohl (Kenyon College).
Graduate Students Advised: Kathryn Catlin (University of Massachusetts-Boston).
Teaching: “Landscape, Place and Society” and “Introduction to Archaeology” (Kenyon College).

J. P. Brown
Undergraduate Interns: Magdalyne Christakis (DePaul University); Cate Schur (Northwestern University); Hannah Koch (University of Chicago).
Graduate Interns: Sophie Hammond-Hagman (University College London); Lu Yao (University of Chicago).
Teaching: “Display Storage and Use II” (University of Chicago Graham School).

Gary Feinman
Graduate Student Advised: Kara Bantz (University of Illinois at Chicago).
Undergraduate Interns: Angeline Peterson (Beliot University); Eric Fagre, Katelyn McDonald (Iowa State University); Meagan Thies (University of Iowa); Madelaine Weeks (Wesleyan University).
Graduate Interns: Keitlyn Alcantara (University of Chicago), Kara Bantz, Elise Enterkin (University of Illinois at Chicago).
Graduate Student Associates: Lindsey Baker (Southern Illinois University); Lacey Carpenter (University of Michigan).

Jonathan Haas
Graduate Students Advised: Ed Jackitis, Khristin Landry, Rebecca Winker (Northern Illinois University); Sofia Chacaltana, Matthew Piscitelli, Cecilia Smith, Douglas Smit, Jennifer Wulffen (University of Illinois at Chicago).
Teaching: “Social Organization” (University of Illinois at Chicago).

Jamie Kelly
High School Interns: Maria Sabater (The Hewitt School).
Undergraduate Interns: Margaret Geoga (Harvard University); Andrew Alexander (Southern Illinois University Carbondale); Sarah Urban (University of Illinois at Chicago).
Graduate Interns: Amy Zillman (Northwestern University).

Chapurukha M. Kusimba
Graduate Students Advised: Cyril Wilson (Indiana University at Terre Haute); Ryan Szysmanski (Oregon State University); Kong Cheong (Trent University, Canada); Erendira Quintana-Morales (University of Bristol, UK); Rebecca Aguila (University of Chicago); Colin LeJeune, Stephanie Moormann, Lindsey Proctor (University of Illinois at Chicago); Carla Klehm (University of Texas at Austin).

Debbie Linn
Intern**:** Megan Mueller (Southern Illinois University).

Robert D. Martin
Graduate Students Advised: Cindy Carlson, Edna Davion (University of Chicago).
Teaching: “Primate Evolution” taught as part of the *Primates and Human Evolution* program (Paris Center of the University of Chicago).

Other: Participation in selection of graduate students for the Committee on Evolutionary Biology (University of Chicago).
Interns in Biological Anthropology: Lu Yao (Northwestern University); Hannah Koch (University of Chicago).

Linda Nicholas
Undergraduate Interns: Angeline Peterson (Beloit University); Eric Fagre, Katelyn McDonald (Iowa State University); Meagan Thies (University of Iowa); Madelaine Weeks (Wesleyan University).
Graduate Interns: Keitlyn Alcantara (University of Chicago); Kara Bantz, Elise Enterkin (University of Illinois at Chicago).

Lisa Niziolek
Other: Trained graduate student Matthew Piscitelli (University of Illinois at Chicago) on using LA-ICP-MS analysis on archaeological ceramics.

Ruth E. Norton
Undergraduate Interns: Emily Busch (Northern Michigan University); Skarlett Engels (Tufts University) Danielle Labotka (University of Chicago); Liz Sorokin (University of Illinois Urbana-Champaign); Lauren Fahey (Wellesley College); Sally Johnson (Yale University).
Teaching: "Conservation of Ethnographic Materials," Art Conservation Department, SUNY Buffalo State College; "Handling and Labeling Objects" (University of Chicago, Graham School).

William A. Parkinson
Undergraduate Interns: Jacqueline Lipphardt, Meagan Luthern, Kyle Olson (Ohio State University); Irene Jaramilllo (University of Illinois Urbana-Champaign).
Graduate Students Advised: Sylvia Deskaj (Michigan State University); Tamás Polanyi (Northwestern University); Rory Denison, Danielle Riebe, Rebecca Seifried (University of Illinois at Chicago); Joshua Englehardt, Hanneke Hoekman-Sites, Timothy Parsons, Ian Pawn, (Florida State University).
Teaching: CIC Independent Study, (Northwestern University); Independent Study (University of Illinois at Chicago).
Other: Director, International Research Experience for Students: U.S.-Hungarian-Greek Collaborative International Research Experience for Students on Origins and Development of Prehistoric European Villages, Körös Regional Archaeological Project, Vésztő, Hungary.

Christopher J. Philipp
Undergraduate Interns: Katherine Horskotte (Macalester College); Sarah Schoetz (University of California Santa Cruz); Jessica Beier (University of Illinois at Urbana-Champaign); Elizabeth Olveda (University of Notre Dame).

Nicola Sharratt
Teaching: "Writing Culture" (University of Illinois at Chicago).

John Terrell
Teaching: "Friendship: Anthropological & Evolutionary Perspectives Understanding our Evolved Human Capacity for Friendship" (University of Illinois at Chicago).
Other: External assessor of a student exhibition on musical instruments as cultural objects at Northern Illinois University; Initiated a post-doctoral discussion group within the Department of Anthropology at The Field Museum at which unpublished papers by students and staff are read and discussed.

Alaka Wali

Graduate Students Advised: Paul Bick, Zachary Blair, Evin Rodkey (University of Illinois at Chicago).
Teaching: "Urban Environmental Anthropology" (University of Illinois at Chicago); "Independent Study on Inuit Collections" (Northwestern University).

Patrick Ryan Williams
Graduate Students Advised: Ben Vining (Boston University); Emily Baca, Gabriel Cantarutti, Sofia Chacaltana, Rebecca Deeb, Rory Dennison, John Hicks, Matthew Piscitelli, Danielle Riebe, Nicola Sharratt, Doug Smit (University of Illinois at Chicago).
Teaching: "Archaeological Field Methods" (University of Illinois at Chicago).

DEPARTMENT OF BOTANY

Mark Alvey
Other: Behind-the-scenes tours for students and faculty from "Science in the City" (Depaul University); Chicago Initiative for Research and Recruitment in Undergraduate Science (DePaul University, Harold Washington College, Truman College); Post-Baccalaureate Research Education Program (University of Chicago); "Intro Biology" (Truman College), "Sustainable Living" (Maharishi University), Shedd Aquarium undergraduate interns.

William Burger
Other: Behind-the-scenes tour for Sustainable Living class (Maharishi University).

Maria Lucia Kawasaki
High School interns: Jasmia Hamilton (Nicholas Senn High School); Cristina Vera (Chicago High School for Agricultural Sciences); Jenibe Temiquel (Chicago Academy High School).

Steven Leavitt
Undergraduate Interns: Warren Chatwin (Brigham Young University); Sergio Garcia (DePaul University); Sean Hattan, Nathan Lustig, Jeff Wasil (Roosevelt University); Jason Kluga (University of Illinois at Chicago).

Robert Lücking
Graduate Students Advised: Manuela Dal Forno (George Mason University, Virginia); Jocabed Guerra (Panama); Matthew Nelsen (University of Chicago); Daniela Lizano (Universidad de Costa Rica); Luisa Betancourt (Universidad Distrital, Colombia); Adriana Ardila (Universidad Distrital Francisco José Caldas, Colombia); Eimy Rivas Plata (University of Illinois at Chicago); Ricardo Miranda, Alejandrina Bárcenas Peña (Universidad Nacional Autónoma de México); Nancy Mateus, Bibiana Moncada, Angélica Rincón (Universidad Nacional, Colombia); Dania Rosabal López (Universidad de Oriente, Santiago de Cuba); David Escandón, Edier Soto (Universidad del Valle, Colombia); Jesús Hernández, (Universidad Simón Bolivar, Venezuela).
Courses: NSF "Neotropical Epiphytic Microlichens" Workshops Guatemala, El Salvador, Panama, Puerto Rico, Colombia, Brazil, Paraguay.

Thorsten Lumbsch
Postdoctoral Scientists: Daniel Ballhorn, Steven Leavitt, Sittiporn Parnmen.
Graduate Students Advised: Raquel Pino Bodas (Universidad Complutense de Madrid, Spain); Eimy Rivas Plata (University of Illinois at Chicago).
Undergraduate Interns: Warren Chatwin (Brigham Young University); Sergio Garcia (DePaul University); Sean Hattan, Nathan Lustig, Jeff Wasil (Roosevelt University); Jason Kluga (University of Illinois at Chicago).
Teaching: "Complex Interactions" (University of Chicago).

Christine Niezgoda
Other: Herbarium tours for classes from Art Institute of Chicago, Maharishi University, Fairfield, Iowa, and Field Museum Summer Intern Program.

Sittiporn Parnmen
Visitors: Vinayaka K.S. (Kuvempu University, India); Kawinnat Buaruang (Kasetsart University, Thailand); Bibiana Moncada (Universidad Distrital Francisco Jose Caldas in Bogota, Colombia).

Richard Ree
Graduate Students Advised: Edna Davion, Deren Eaton, Matthew Nelsen, Benjamin Rubin, Ben Winger (University of Chicago); Michael Jorgenson, Diane McCarthy (University of Illinois at Chicago); Anne Greenberg (Yale University).
Teaching: “Reconstructing the tree of life” (University of Chicago).

Matt von Konrat
Undergraduate Interns: Daniel O'Rourke, Kathleen Soler (DePaul University); Nicolas Hetman (Lake Forest College); Cara Huinker, Jared Lang, Zak Zillen, (Northeastern Illinois University); Laura Bezler, Sean Hatten, Nathan Lustig, Amanda Zeigler (Roosevelt University); Anthony Couch (Tennessee State University); Emine Kochakova, Arista Tischner (University of Illinois at Chicago); Kimberly Mighell (University of North Texas); Enrique Torres, (Wright College).
High School Interns: Jasmia Hamilton (Nicholas Senn High School); Cristina Vera (Chicago High School for Agricultural Sciences); Jenibe Temiquel (Chicago Academy High School).

DEPARTMENT OF GEOLOGY

Kenneth D. Angielczyk
Graduate Students Advised: William Adams (University of Bristol).
NSF REU intern: Stephanie Smith (Johns Hopkins University).
Invited Lecture: Presentation on Geology Department for Shannon Hackett's “Intro to Research at FMNH” class.
Miscellaneous: Participant in Committee on Evolutionary Biology (University of Chicago) Annual Retreat.

Ian Glasspool
Graduate Student Advised: Colleen Michael (Northwestern University).

Lance Grande
Courses: “Stones and Bones,” A field paleontology course for graduate students, University of Chicago.
Students advised: Jeremy Harris (Loyola University).

Philipp R. Heck
Graduate Students Advised: Matthias M. M. Meier (ETH Zurich, Switzerland); Karolina Bjärnborg, (Lund University, Sweden); Reto Trappitsch, (University of Chicago).
Undergraduate Student Interns: Asna Ansari, Brit Hvide (Northwestern University).
Postdoctoral Scientist: Ashley J. King (University of Chicago).

Melanie J. Hopkins
Undergraduate Student Advised: Kelsey Hampton (University of Northern Iowa).

Scott Lidgard
Graduate Students Advised: Kristen Jenkins, Aaron Kandur (University of Chicago).

Peter J. Makovicky
Ph.D. Fellow Advised: Lindsay Zanno, now Director of Paleontology, NC State Museum.
Graduate Students Advised: Brandon Kilbourne, Nathan D. Smith (University of Chicago).
Undergraduate Student Interns: Elizabeth Fisher, Vernon Meidlinger-Chin (Augustana College); Gregor Fausto-Siegmund (University of Chicago).

Courses: Geos 30500 ‘History of Terrestrial Ecosystems’ (University of Chicago).

Paul Mayer
Undergrad Intern: Christine Piorkowski (Roosevelt University).

Olivier Rieppel
Graduate Student Advised: Rebecca Dikow (University of Chicago).
Courses: “Evolutionary Morphology of Vertebrates” undergraduate level (Northwestern University).

William F. Simpson
Undergraduate Interns: Elizabeth Fisher, Vernon Meidlinger-Chin (Augustana College).

Nathan D. Smith
Undergaduate Interns: Elizabeth Fisher, Vernon Meidlinger-Chin (Augustana College); Jake Crandall, Liam Heins, Spencer Hellert (University of Chicago).

Lindsay E. Zanno
Undergraduate Iterns: Franco Gallastegui (University of Chicago); Ben Schulman (Roosevelt University).
Course: “Human Anatomy & Physiology” (University of Wisconsin-Parkside).

DEPARTMENT OF ZOOLOGY

John M. Bates
Postdoctoral Associates: Michel Valim.
Graduate Students Advised: Esther Quintero (American Museum of Natural History); Heather Shull (Boston University); Raoul Davion (Charles Stuart University); Rozenn Bailleul-LeSuer (Oriental Institute); Prince Kaleme, Potiphar Kaliba (University of Cape Town, South Africa); Sidnei Melo Dantas (Univerisdade Federal do Pará); Emma Gregg, Lucinda Lawson, Aaron Savit, Sarah Weyandt, Ben Winger (University of Chicago); Cathy Bechtoldt, (University of Illinois, Champaign-Urbana); Muhammad Abu Baker, Luca Borghesio, Isabel Caballero (University of Illinois at Chicago); Marcos Maldonado, Eliot Miller (University of Missouri, St. Louis).
Undergraduate Interns: Luke Campillo (Drake University); Daniel Montgomery (Indiana State University); Holly Lutz (University of Chicago).
High School Interns: Peter Bates, Aidan Crowe, Jennifer Gray, Ben Moberley, Ethan Shohet-Zabin, Aaron Stone (Evanston Township High School).
Courses: Guest lecturer “Introduction to The Field Museum” (University of Chicago); Advisor, graduate student Ethics course and an Independent reading course (University of Chicago).

Rüdiger Bieler
Courses: “From So Simple a Beginning: Evolution” (with P. Sierwald) (University of Chicago).
Postdoctoral Associates: Sid Staubach, Rosemary Golding, André Sartori.
Graduate students advised: John Wilk (University of Illinois at Chicago).

James H. Boone
Undergraduate Interns: Sonia Leon (Elmhurst College); Stephanie Garcia (Loyola University); Tatiana Green, Andia Ymeraj (Roosevelt University); Kelsey Keaton, Daniel Le (School of the Art Institute Chicago).
High School Interns: Stephanie Garcia (Carl Sandburg High School).

Jochen Gerber
Undergraduate Intern: Renée Kelsey (Roosevelt University).
High School Intern: Michael Li (Cranbrook Academy).

Steven M. Goodman
Courses: “Biogéographie des animaux terrestres de Madagascar” (Graduate Student Seminar) etModèles de micro-endemism à Madagascar, Université d’Antananarivo; “Biogéographie des animaux terrestres de Madagascar” (Graduate Student Seminars), Université de Mahajanga.
Honorary Appointments: Honorary Professor, University of Kwa-Zulu Natal, South Africa; Professor, Université d’Antananarivo and Université de Mahajanga; Research Associate, The American Museum of Natural History; Visiting Scientist, The University of Michigan Museum of Zoology ; Research Associate, University of Hamburg, Germany; Conseil Scientifique Régional du Patrimoine Naturel, Mayotte, France; Comité Scientifique Régional du Patrimoine Naturel, Préfecture de La Réunion, France.
Graduate Students Advised: Clément Gilbert (Stellenbosch University); Radosoa Andrianaivoarivelo, Aristide Andrianarimisa, Patricia Maminirina, Soanandrasana Rahelinirina, Martin Raheriarisena, Zafimahery Rakotomalala, Félix Rakotondraparany, Hery Rakotondravony, Oliarinony Ranalison, Désire Randriamasimanana, Julie Ranivo, Achille Raselimanana, Juliana Rasoma, Joelisoa Ratsirarison, Fanja Ratrimomanarivo, Lily Rene de Roland, Sama Zefania (Université d’Antananarivo); Nicole Weyeneth (Université de Geneve); Thesine Naidoo, Taryn Ralph, Leigh Richards (University of Kwa-Zulu Natal); Vincent Florens (Université de La Réunion); Amyot Kofoky, Tsibara Mbohoahy (Université de Toliara).
DEA students: 11 students (Université d’Antananarivo); Three students (Université de Mahajanga); Four Master’s students (University of Kwa-Zulu Natal).

Shannon J. Hackett
Staff Scientists Advised: Holly Lutz, Heather Skeen, Jason Weckstein.
Graduate Students Advised: Nicholas Block, Rebecca Dikow, Lucinda Lawson, Aaron Savit, Ben Winger (University of Chicago); Amy Vandal (Université de Montréal).
Undergraduate Interns: Helen Worell (University of Chicago).
High School Interns: Peter Bates, Jamie Carthew, Aidan Crowe, Jenny Gray, Ben Moberly, TJ Schultz, Ethan Shohet Zabin, Aaron Stone (Evanston Township High School); Malia Wenny (Illinois Math and Science Academy); Prahi Thirkateh (Naperville North High School); Griffin Harris, Simona Krifman (New Trier High School); Kit McDonnell (St. Francis High School).
Trainees: Gina Slusinski (Homewood-Flossmoor High School); Tom Champion (Naperville North High School); Evan Martin (Rauner College Prep); Carrie Kaestner (Von Steuben High School); Heather Skeen.
Instructor: Introduction to Research at Field Museum (University of Chicago).
Invited/guest lectures: Guest Lecturer for genomics class and Presenter on Doctoral Dissertation Improvement grants (University of Chicago); Guest Lecturer, evolution class (Loyola University).
Other: Co-Chair, University of Chicago Committee on Evolutionary Biology; Steering Committee, University of Chicago’s GAANN program; Fellow, University of Chicago’s Institute for Genomics and Systems Biology; Co-PI and Presenter, University of Chicago and Field Museum joint program in systems biology for high school students and high school teachers.

Lawrence R. Heaney
High School Interns: James Carthew and Jennifer Gray (Evanston Township High School, Evanston).
Graduate Students Advised: Member of graduate committees for four students: one at University of Chicago, two at University of Illinois at Chicago, one at University of Minnesota.

Kathleen Kelly
Undergraduate Interns: Gabriel Hast, (Evanston Township High School-University of Kansas); Allysen Banks, Lillian Johnson (Roosevelt University); Hannah Koeppl (University of Illinois, Chicago).

Julian C. Kerbis Peterhans
Graduate Students Advised: Terrence Demos (City University of New York); Melanie Jonas (Illinois State University); Deo Tuyisingize (University of Capetown); Ogeto Mwebi (University of Provence, France); Prince Kaleme (University of Stellenbosch, South Africa).

Undergraduate Interns: Sharday Arnold, Allison Banks, Shawna Bartnik, Laura Bezler, Alexandra Bishay, Michael Borraccio, Angela Cornelius, Heather Diedrich, Jennifer Dombeck, Kenton Franklin, Tiana Green, Tom Hareland, Sean Hattan, Mohamed Jama, Kristen Johnson, Lillian Johnson, Rene Kelsey, Kristina Lugo, Nathan Lustig, Allison Mayes, Keith Nawls, Sara Parillo, Christine Piorkowski, Anthony Rodriguez, Ben Schulman, Austin Shoudel, Susan Swanton, Alan Swartz, Garrett Sweetwood, Jeff Wasil, Andia Ymeraj, Joe Zambuto, Amanda Zeigler (Roosevelt University).
Courses: “Biodiversity” internship course, “Museum Studies” internship course, “Seminar in Natural Science” (Roosevelt University).

Corrie S. Moreau
Postdoctoral Associates: Stefanie Kautz.
Graduate Students advised: Yi Hu (Drexel University); Benjamin Rubin, Max Winston (University of Chicago).
Undergraduate Interns: William Montag (Bowdoin College); Sara Zufan (DePaul University); Lynika Stozier (Dominican University); Ariel Fang, (School of the Art Institute of Chicago); Arista Tischner (University of Illinois at Chicago); Jessica De Smet (University of Illinois Urbana-Champaign).
Trainees: Rebekah Baquiran, Gracen Brilmyer, Alexandra Westrich, Brian Wray.
Courses: “Reconstructing the Tree of Life” undergraduate and graduate course (University of Chicago); Ant Course, Portal, AZ, field based course.
Invited/guest lectures: Miller Institute of Basic Research in Science, University of California, Berkeley, USA; Drexel University, Philadelphia, PA, USA; American Museum of Natural History, New York, NY; University of Chicago.
Other: Held workshop for FMNH summer interns on applying and getting into graduate school.

Alfred F. Newton
Graduate Students Advised: Chenyang Cai (Nanjing Institute of Geology and Palaeontology, Nanjing, China); Angelico Asenjo, (Universidade Federal do Paraná, Brazil); David J. Clarke (University of Illinois at Chicago).

Bruce D. Patterson
Graduate Students Advised: Alex Mwazo Gombe (Kenyatta University, Nairobi, Kenya); Christopher Schell, Nate Upham (University of Chicago); Mohammad Abu Baker, Erika Arnold, Crystal Guzman, Eric Hancock, Carrie Seltzer (University of Illinois at Chicago).
Undergraduate Interns Advised: Jason Kopp (University of Minnesota, Twin Cities); Lauren Hennelly (University of Wisconsin, Madison).
Courses: “Biogeography,” “Readings: Evolutionary Biology,” “Evolutionary Biology” (University of Chicago).
International visiting scholars: Bárbara de Andrade Costa, Daniela Rossoni (University São Paulo, Brazil); Valentina Segura (University Nacional de la Plata, Argentina); CONICET post-doctoral sponsor for Dr. Maria Encarnación Pérez, Museo Paleontológico “Egidio Feruglio,” Trelew, Argentina.

Alan Resetar
Undergraduate Interns: Gabriel Hast (Evanston Township High School-University of Kansas).

André F. Sartori
Undergraduate Interns: Alan Swartz (Roosevelt University); Katherine Anderson (University of Michigan - Ann Arbor).

Petra Sierwald
Courses: “From So Simple a Beginning: Evolution” (with R. Bieler) (University of Chicago).
Graduate students advised:); Michael S. Brewer (East Carolina University); Michael Jorgensen (University of Illinois at Chicago); Joao Paulo Peixoto Pena Barbosa (University of Sao Paulo, Brazil).

W. Leo Smith
Postdoctoral Associates: Matthew Davis, Nicholas Lang.
Graduate Students Advised: Rebecca Dikow, Timothy Sosa (University of Chicago).
Graduate Student Committee Member: Lauren Sallan, Thomas Stewart (University of Chicago.
Undergraduate Intern: Elizabeth Everman (William Jewel College).

Margaret K. Thayer
Graduate Students Advised: Yoon-Ho Kim (Chungnam National University, South Korea); Shuhei Yamamoto (Kyushu University, Japan); Chenyang Cai (Nanjing Institute of Geology and Palaeontology, China); David J. Clarke (University of Illinois at Chicago).
Undergraduate Interns: Mairead Baker (Northwestern University).
Graduate Intern: Zachary Burington (Clemson University).

Janet R. Voight
Undergraduate Student Intern: Jonathan Plotner (Loyola University).

Jason D. Weckstein
Postdoctoral Fellow: Dr. Michel Paiva Valim (CNPq [Brazilian National Science Foundation] postdoctoral fellow).
Graduate Student Trainee: Sidnei de Melo Dantas, Ph.D. candidate (Museu Paraense Emílio Goeldi/Universidade do Pará).
Undergraduate Interns: Joseph Cacioppo (University of Chicago).
High School Interns: Ari Rice (Glenbrook North High School); Malia Wenney (Illinois Math and Science Academy).

Mark W. Westneat
Graduate Students Advised: Joanna Mandecki, Charlene McCord, Aaron Olsen, Michael Alcorn (University of Chicago).
Undergraduate Interns: Marianne Seneszco (University of Chicago).
Courses: IGERT training course in motor control and movement (University of Chicago).
Invited/guest lectures: Research at the Field Museum, Organismal Biology and Anatomy research lecture (University of Chicago),

BIODIVERSITY SYNTHESIS CENTER

Mark W. Westneat
Graduate Students Advised: Janelle Morano (Loyola University); Matt Friedman, Joanna Mandecki, Charlene McCord (University of Chicago); Steve Hanson (University of Illinois at Chicago).

Joshua Drew
High School Student Interns
Charlotte Collins (Latin School); Darcae Holmes, Amber Richardson (VOISE Academy).

Audrey Aronowsky
Undergraduate Student Interns
Marianna Tzeka (Columbia College)
Graduate Student Intern
Christopher O'Brien (Columbia College).

Kristopher Urie
Undergraduate Student Interns
Marianna Tzeka (Columbia College).

Torsten Dikow
Undergraduate Student Interns
Katie Lyons (Nazareth College); Sara Parilo, Kenton Franklin (Roosevelt University).

Beth Sanzenbacher
Christopher O'Brien, Adam Orton, Timothy Sauer (Columbia College).

PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION

Kevin A. Feldheim
Graduate students advised: Andrea Bernard (Nova University); Jimiane Ashe, Shannon O'Leary (Stony Brook University).

Training (molecular techniques): Evan Martin (Austin Buisness and Entrepreneurship Academy);Will Montag (Bowdoin College); Warren Chatwin (Brigham Young University); Sergio Garcia, Sara Zufan (DePaul University); Melanie Koto (Illinois Insitute of Technology); Daniel Montgomery (Indiana State University); Ari Rice (Lawrence University); Elizabeth Hamman, Amber Melick (Manchester College); Thomas Champion, Prahasit Thirkateh (Naperville North High School); Griffin Harris, Simona Krifman (New Trier High School); Laura Briscoe (Northwestern University);Krizel Singson (Roosevelt University); Katharine McDonnell (St. Francis High School); Bianca Kapoor (Stanford University); Bibiana Moncada (Universidad Nacional de Colombia); Graham Haviland, Lu Yao (University of Chicago); Lauren Hennelly (University of Wisconsin); Michelle Tipton (Wesleyan University); Adrienne Chung (Whitney Young Magnet High School); Elizabeth Everman (William Jewell College).

Training (microsatellite development): Stefanie Kautz (FMNH); Dylan Maddox (Florida Museum of Natural History).

TRAINING PROGRAMS, 2011

Each year members of The Field Museum's scientific staff of Collections and Research lead a wide spectrum of formal and hands-on training in collections-based research for high school, undergraduate and graduate students, and young professionals. Building on the Museum's core subject matter in evolutionary and environmental biology and anthropology/archaeology, these programs fulfill many functions: encouraging young students to consider careers in the sciences, providing the collections-based foundation for Ph.D. dissertations, and training early-career scientists from other countries to tackle environmental conservation issues at home. In local lecture halls, at international universities, in our DNA Lab, in our collections, and at far-flung field sites, the following is an overview of the diverse array of training programs led by the curators and professional staff of Collections and Research in 2011.

HIGH SCHOOL AND UNDERGRADUATE INTERNSHIPS

Field Museum Scholarship Committee Internships

Each year The Field Museum supports summer internships for undergraduate students to work directly with scientists at The Field Museum on collections-based research projects. In 2011, the Scholarship Committee supported eight students with funding from our NSF Research Experiences for Undergraduates (REU) program. Katherine Anderson (University of Michigan, Ann Arbor) worked with Curator Rüdiger Bieler and Postdoctoral Research Scientist Andre Sartori (both Zoology/Invertebrates) on clams as tools to understand macroevolution for Bivalves in Time and Space (BiTS). Warren Chatwin (Brigham Young University) studied species delimitations in lichens with Associate Curator Thorsten Lumbsch (Botany). Elizabeth Everman (William Jewell College) researched the evolution of venom in Scorpionfishes and Waspfishes with Assistant Curator W. Leo Smith (Zoology/Fishes). Graham Haviland (University of Chicago) worked with Curator Robert Martin and Resident Ph.D. Student Edna Davion (both Anthropology) researching color vision in nocturnal Malaysian mammals. William Montag (Bowdoin College) researched strategies of growth versus reproduction in acacia-ants with Assistant Curator Corrie Moreau, Postdoctoral Research Scientist Stefanie Kautz and Resident Doctoral Student Benjamin Rubin (all Zoology/Insects). Gregor-Fausto Siegmund (University of Chicago) worked on calibrating fossil phylogenies with Associate Curator Peter Makovicky (Geology). Stephanie Smith (Johns Hopkins University) researched skeletal dimensions in rodents as a predictor of daily activity patterns with Assistant Curator Ken Angielczyk (Geology). Hannah Wirtshafter (Carnegie Mellon University) worked on the Bivalve Tree of Life project with Curator Rüdiger Bieler and Postdoctoral Research Scientist Sid Staubach (both Zoology/Invertebrates).

Boone Scholars Internships for East Asian Studies

Supported by a bequest from the late Commander Gilbert E. Boone and his wife Katharine Phelps Boone, the Boone Scholars Internships for East Asian Studies allow highly qualified undergraduates the opportunity to study at The Field Museum and work with Anthropology collections from Japan, Korea, China, and elsewhere in the eastern part of Asia. The 2011 Boone Scholars were Kate Kozhukhova from the University of Chicago and Andrew Alexander from Southern Illinois University. Kate made preliminary cultural attributions for many of the Asian items in the recently-acquired Kaufman-Dryer collection, which is primarily composed of textiles and articles of personal adornment, and also assisted with photographing and organizing the department's collection of Japanese woodblock prints in preparation moving them to improved storage conditions. Andrew worked on several projects, including researching the Museum's 13th century Java Sea Wreck collection, databasing the original Boone Collection catalog cards, digitizing exhibit labels from the Museum's earlier China Exhibition Hall, as well as assisting with ongoing efforts to house and inventory artifacts that make up the Tibetan and Chinese ethnographic collections.

Anthropology Alliance Interns

Launched by the Anthropology Department's auxiliary "friends" group in 2000, this program supports undergraduate involvement in anthropology research, including direct salary for Museum-based undergraduate collection management interns, and travel expenses for interns assisting in archaeological or ethnographic fieldwork. In 2011 there were four fieldwork and two collections interns supported by the Anthropology Alliance. Kara Bantz of University of Illinois at Chicago spent part of the summer conducting archaeological research at the Mitla Fortress with Dr. Gary Feinman and Linda Nicholas. Rebecca Aguilar of the University of Chicago joined Dr. Chap Kusimba for his ongoing work in Kenya. John Hicks of University of Illinois at Chicago joined Dr. Ryan Williams for a season of fieldwork in Peru. Rebecca Seifried joined Dr. William Parkinson in Greece to assist with his work on the Diros project. Deanna Cundiff and Megan Geurts of Perdue University Indianapolis worked as collection management interns, working with Head Registrar Alan Francisco and Collections Manager Chris Philipp, learning formal museum methods of cataloging, archival research, and collections care.

GRADUATE PROGRAMS

University of Chicago – Committee on Evolutionary Biology (CEB)

This Ph.D. program within Biological Sciences at the University of Chicago—a collaboration among the University, The Field Museum, Brookfield Zoo, Lincoln Park Zoo, and Argonne National Lab—has been training students in evolutionary biology for more than 40 years. 21 Field Museum scientists are involved in CEB, comprising more a third of its faculty and supervising more than half of the program's Ph.D. candidates. Shannon Hackett (Zoology/Birds) serves as Associate Chair of CEB. Field Museum curators currently serve as primary dissertation advisors for 13 CEB students (out of 31 total). 2011 marked the 6th year of support from a highly competitive Department of Education program to enhance the training of gradate students in evolutionary biology and conservation science.

University of Chicago – Organismal Biology and Anatomy (OBA)

Mark Westneat, Curator of Zoology (Fishes), is adjunct faculty in OBA, where he teaches "Comparative Vertebrate Anatomy" and several graduate courses on biomechanics. Dr. Westneat is currently supervising four OBA dissertations, bringing to 12 the number of OBA students for whom he has served as major advisor; he has also served on 10 other OBA dissertation committees.

University of Illinois at Chicago/Field Museum Anthropology Ph.D. Program

This program was established in 1995 in order to strengthen anthropology course offerings at UIC and enable the university to grant the Ph.D. in Anthropology, as well as to facilitate access by UIC faculty and students to Field Museum collections. Besides teaching on a regular basis at UIC, all of The Field Museum's anthropology curators are adjunct professors and members of the UIC graduate faculty, chairing Ph.D. committees—Field Museum curators collectively chaired eight doctoral committees in 2011—as well as serving on admissions committees, and on search and promotion committees for teaching and faculty positions. A new feature of the program in 2011 were three jointly funded postdoctoral fellowships, all UIC graduates, who teach at UIC and conduct research under the mentorship of curators at the museum. There are currently over 50 Ph.D. students in the program, and FM curators work with more than half of them in some capacity (as dissertation committee members, intern supervisors, or informal advisors for first-year students).

Northwestern University/Field Museum Program in Anthropology

Formalized in Fall 2001, this program consolidated an emerging relationship between the Anthropology programs at the Museum and Northwestern. Eight Field Museum anthropology curators have adjunct professor status at Northwestern, and engage in regular teaching duties that are part of the Northwestern University course offerings, and select NU anthropologists have adjunct curator status at the Field. A postdoctoral scientist, jointly funded by the museum and Northwestern, is on the museum staff in 2011.

University of Illinois at Chicago – Ecology and Evolution Program
This graduate-degree granting program within the Department of Biological Sciences at the University of Illinois at Chicago is a collaboration of the department's eight organismal biologists with nine curators at The Field Museum, as well as scientists from the Brookfield Zoo, the Morton Arboretum and other area institutions. The collaboration grew out of joint interest in training international colleagues, and the program has hosted three MacArthur-sponsored programs for training in tropical conservation, as well as several NSF-funded programs in Botany and Zoology. Seven students based in the Museum's Department of Zoology and three in Botany pursued their graduate studies under this program in 2011. Curator Bruce Patterson (Zoology) serves as institutional liaison.

Resident Graduate Students
As the "Higher Education" section of this report demonstrates, graduate student advising, dissertation supervision, and university teaching are central to the academic mission of Collections and Research. Among the many doctoral students mentored by Field Museum curators is a core group of students whose work is squarely based in the Museum's collections and labs—our Resident Graduate Students. The students not only have curators on their dissertation committees, but also office space at the Museum, access to its facilities, and many of the same privileges as staff. In 2011 The Field Museum provided training in collections-based research to 53 Resident Students from the University of Chicago, the University of Illinois at Chicago, and Northwestern University, as well as universities beyond Chicago (see "Resident Graduate Students" section for details).

FIELD-BASED TRAINING FOR HIGH SCHOOL AND UNDERGRADUATES

Stones and Bones: A Course in Paleontological Research and Field Work
For the past eight summers Lance Grande (Senior Vice President and Head of Collections and Research) has taught a field course to a small group of advanced placement high school students. The four-week course is run through the University of Chicago and The Field Museum and covers paleontological theory, method and practice, and includes an introduction to paleontology at the Museum, two weeks of hands-on field work in the mountain desert near Kemmerer, Wyoming, and a wrap-up week at the Museum focusing on preparation, study and analysis of the collected material. In 2011, 17 students participated in the program, including three from Saudi Arabia. Past participants in the program have gone on to the paleontology program at Northern Illinois University, the archaeology programs at Loyola and Washington University at St. Louis, and the Museum Studies Masters' Program at Wesleyan, in addition to many students who have returned to the Museum as volunteers and interns.

Contisuyo Field School
This Field Museum program introduces undergraduates to archaeological excavation and laboratory analysis techniques, at sites in southern Peru. The primary archaeological field site is a mountaintop Wari city (600–1000 AD). The field school operates in conjunction with the Contisuyo Museum in the southern department of Moquegua. The program is led by Associate Curator and Chair Ryan Williams and Adjunct Curator Donna Nash (both Anthropology), including faculty from the University of North Carolina-Greensboro, the University of Florida, and the Contisuyo Museum. Now in its fifth year, the program hosted fourteen undergraduates in 2011, the majority from UIC and UNCG and one from Illinois Wesleyan University.

Proyecto Arqueologico Norte Chico
Directed by MacArthur Curator Jonathan Haas of Anthropology and Dr. Winifred Creamer, Adjunct Curator and Presidential Research Professor at Northern Illinois University, this project investigates the origins of Andean civilization in coastal Peru. The program has involved more than a dozen University of Illinois at Chicago graduate and undergraduate students since 1999, and has provided eight full fellowships to UIC graduate students since 2003. One UIC Ph.D. student, Matthew Piscitelli, is currently

doing his dissertation drawing on research conducted as part of this project. Two NIU students completed Master's theses based on excavated materials from the project.

INTERNATIONAL TRAINING AND CAPACITY-BUILDING

Vahatra and advancement of Malagasy conservation biologists

From 1993 to 2007 Steve Goodman (MacArthur Field Biologist, Dept. of Zoology) led a joint Field Museum-World Wildlife Fund (WWF) "Ecology Training Program" (ETP) in the biological sciences for Malagasy graduate students. In 2007, ETP evolved into Vahatra, a Malagasy-run NGO led by former ETP students who are now internationally-known field biologists in their own right, and faculty members at different Malagasy universities. Dr. Goodman is the Scientific Advisor for Vahatra, and serves as primary advisor or committee member for numerous students preparing Master's or Ph.D. degrees at the Universities of Antananarivo, Mahajanga, Toliara (Madagascar); KwaZulu Natal (South Africa), and Geneva (Switzerland). Between the ETP and Vahatra programs more than 400 Malagasy students have participated in field schools, and the program has yielded more than 590 scientific publications. Around 100 Malagasy students earned advanced degrees within the national university system in the fields of zoology and conservation biology, and many graduates have gone on to important posts in the non-government and government sectors on Madagascar and are advancing conservation programs there. Vahatra publishes a scientific journal known as *Malagasy Nature*, dedicated to the natural history of Madagascar and neighboring islands. In 2011, Vahatra starting publishing a guide series to the biodiversity of Madagascar, with the first three books were published in 2011, including bats (Goodman), small mammals (Soarimalala and Goodman), and endemic birds (Raherilalao and FGoodman).

Training Programs in Latin American Lichenology and Mycology

Lichenized fungi, or lichens, are sensitive indicators of environmental health and with their rich chemistry also sources for pharmaceutically active compounds. Yet, especially in tropical regions, they are still poorly known. Since 2002, Collections Manager and Adjunct Curator Robert Lücking (Botany) has conducted training programs for Latin American Lichenology and Mycology students and professionals, including courses at Universidad de Costa Rica, at Universidad Peruana Cayetano Heredia in Lima, Peru, and at Las Cruces Biological Station in Costa Rica (sponsored by the Organization for Tropical Studies). In 2007 Dr. Lücking launched an NSF-funded project that will supports lichen workshops in 16 Latin American countries through 2012, covering tropical lichenology, quantitative field sampling methods, and multivariate analysis of community data. As part of this program, in 2011 he conducted thirteen workshops in Panama, El Salvador, Guatemala, Puerto Rico, Colombia, and Brazil, training some 150 students and early-career scientists. This nearly concludes the project, with two further workshops outstanding in 2012.

East Asian Lichenology and Mycology

Associate Curator and Chair Thorsten Lumbsch (Botany) has had an active training program for students interested in Lichenology and Mycology in East Asia since 2006. He is currently advising one Ph.D. student in Thailand and collaborating with two working groups. In 2011 Dr. Lumbsch traveled twice to Thailand for field trips and meetings with his collaborators, and welcomed a new postdoc from Thailand, Sittiporn Parnmen, who will be working on the NSF-funded project on the lichen family Graphidaceae.

Lichenology in East Africa

Since 2009 Thorsten Lumbsch has conducted workshops on lichen taxonomy in Kenya, Uganda and Tanzania, led field trips in Kenya and Tanzania, and hosted graduate students from Kenya and Tanzania at the Museum. The program is a collaboration with the National Museums of Kenya, supported by the IDP Foundation, Inc. Graduate students from Kenya and Tanzania spent several weeks at the Museum during 2011, working with Thorsten on identifying their collections and receiving training in microscopical and chromatographic methods, as well as taxonomic concepts, modern herbarium techniques, and databasing.

Mammalian Biodiversity in the Philippines

For more than 25 years Curator Larry Heaney (Zoology/Mammals) has been training Filipino scientists on the documentation and conservation of vertebrate biodiversity in the Philippines—home to one of most unique and severely threatened biodiversity hotspots on earth. With funding from the Museum, the National Science Foundation, the MacArthur Foundation, and the Negaunee Foundation, Dr. Heaney has trained more than 80 young Filipino university biologists, park managers, and government officials, and has conducted many workshops and intensive courses at University of the Philippines–Los Baños and University of the Philippines main campus (Diliman). In 2011, the project provided advanced training in field research techniques and manuscript preparation to people from a local government office, a university, and a museum. Larry also coordinated development of a new program that will allow the Philippine government to obtain official listings of threatened species from the Wildlife Conservation Society of the Philippines (which Larry helped create in 1992); Larry will serve as chair of the mammal section in that effort.

COLLECTIONS- AND LAB-BASED TRAINING AT THE FIELD MUSEUM

NSF PEET projects

The PEET program (Partnerships for the Enhancement of Expertise in Taxonomy), the National Science Foundation's response to ever-shrinking expertise in "whole organism" biology, made major grants to support intensive studies of "under-studied" organisms, with projects providing comprehensive training in collections-based, monographic studies for postdoctoral associates, graduate students, and undergraduate interns. The program funded five projects at The Field Museum since the late 1990s; the remaining PEET project still underway at FMNH is Associate Curator Petra Sierwald's large-scale millipede study "The Diplopoda: Research, Taxonomic Training and Computerization," which provided training for two postdocs, four Ph.D. students, two Masters' students, and over a dozen interns. Overall the project produced four professors, all now training their own undergraduate and graduate students, and one Myriapod curator in Germany. The project also supported (and the Museum continues to support) millipede training and millipede research conducted by early-career millipede systematists in the Philippines, Brazil, Vietnam and Thailand.

Training in Molecular Analysis Techniques

The Pritzker Laboratory for Molecular Systematics and Evolution is a multi-user Field Museum facility dedicated to the collection and analysis of genetic data on the evolutionary relationships among species. Lab Manager Kevin Feldheim conducts training for new users in all phases of the data collection process, from DNA extraction to sequencing to analysis of the resulting data. During 2011 lab staff trained 36 new users, ranging from high school interns to Ph.D. students to international scientists, including visitors from Germany, Thailand, China, and Brazil. Study topics included great white sharks, lichenized fungi, birds, malaria, snakes, fish and flowering plants.

INTERNS, 2011

HIGH SCHOOL INTERNS

Department of Anthropology

Jackson Powers (Loyola Academy).

Department of Botany

Jasmia Hamilton (Nicholas Senn High School); Cristina Vera (Chicago High School for Agricultural Sciences); Jenibe Temiquel (Chicago Academy High School).

Department of Geology

Christopher Boudreaux, Lake Forest Academy, Lake Forest, IL; Gina Charles, Perspectives Leadership Academy, Chicago, IL; Liam Elward, Roycemore School, Evanston, IL; Alex Layng, St. Ignatius College Prep, Chicago, IL.

Department of Zoology

Peter Bates, Evanston Township High School; Jamie Carthew, Evanston Township High School; Aiden Crowe, Evanston Township High School; Jacqueline Fuentes, Kelly High School; Stephanie Garcia, Carl Sandburg High School; Jennifer Gray, Evanston Township High School; Nathan Goldberg, Latin School; Darcae Holmes, VOISE Academy; Gabriel Hast, Evanston Township High School; Vincent Kenney, St. Ignatius High School; Michael Li, Cranbrook Academy; Ben Moberley, Evanston Township High School; Ari Rice, Glenbrook North High School; Amber Richardson, VOISE Academy; Aaron Stone, Evanston Township High School; Malia Wenny, Illinois Math & Science Academy; Ethan Shohet Zabin, Evanston Township High School.

Library

Danielle Drimmie, Centre Wellington District High School, Ontario, Canada.

Pritzker Laboratory for Molecular Systematics and Evolution

Griffin Harris, New Trier High School; Simona Krifman, New Trier High School; Katharine McDonnell, St. Francis High School; Prahasit Thirkateh, Naperville North High School; Adrienne Chung, Whitney Young Magnet High School.

Biodiversity Synthesis Center

Charlotte Collins, Latin School, Chicago, IL; Amber Richardson, VOISE Academy, Chicago, IL; Darcae Holmes, VOISE Academy, Chicago, IL.

UNDERGRADUATE STUDENT INTERNS

Department of Anthropology

Rebecca Aguilar, University of Chicago; Andrew Alexander, Southern Illinois University at Carbondale; George Brigandi, Purdue University; Daniel Brunk, Loyola University Chicago; Emily Busch, Northern Michigan University; Allison Coates, Northwestern University; Patricia Cortez, University of Illinois at Chicago; Deanna Cundiff, Purdue University Indianapolis; Tegan Donnelley, Cambridge University; Scarlett Engle, Tufts University; Eric Fagre, Iowa State University; Margaret Geoga, Harvard University; Graham Havilland, University of Chicago; Carly Johnston, North Central College; Sally Johnson, Yale University; Hannah Koch, University of Chicago; Kate Kozhukhova, University of Chicago; Danielle Labotka, University of Chicago; Hilary Leathem, University of Illinois at Chicago; Amanda Marolf, North Central College; Caitlin Monesmith, University of Notre Dame; Geneva Morris, Loyola University Chicago; Eileen O'Donnell, School of the Art Institute of Chicago; Jessica Pantel, North Central College; Natalie

Perretto, University of Illinois at Chicago; Angeline Peterson, Beloit College; Barbara Posinger, University of Illinois at Chicago; Lindsey Proctor, University of Illinois at Chicago; Catherine Schur, Northwestern University; Cydney Stasiulis, North Central College; Meagan Thies, University of Iowa; Madeline Weeks, Wellesley College; Emily Wright, Northwestern University; Lu Yao, Northwestern University; Amy Zillman, Northwestern University.

Department of Botany
Warren Chatwin (Brigham Young University); Sergio Garcia, Daniel O'Rourke (DePaul University); Laura Bezler, Sean Hatten, Nathan Lustig, Garrett Sweetwood, Jeff Wasil, Amanda Zeigler (Roosevelt University); Jason Kluga (University of Illinois at Chicago); Cara Huinker, Jared Lang, Zak Zillen (Northeastern Illinois University); Kimberly Mighell (University of North Texas); Enrique Torres (Wright College); Nicolas Hetman (Lake Forest College); Anthony Couch (Tennessee State University).

Department of Geology
John Adams, University of Chicago; Asna Ansari, Northwestern University; Elizabeth Fisher, Augustana College, Rock Island, IL; Franco Gallastegui, University of Chicago; Magdalena Gorczynska, Northeastern Illinois University, Chicago, IL; Liam Heins, University of Chicago; Keegan Melstrom, University of Michigan, Ann Arbor, MI; Vernon Meidlinger-Chin, Augustana College, Rock Island, IL; Colleen Michael, Northwestern University; Gregor-Fausto Siegmund, University of Chicago; Stephanie Smith, Johns Hopkins University, Baltimore, MD; Todd Suhs, Elmhurst College, Elmhurst, IL.

Department of Zoology
Katherine Anderson, University of Michigan; Mairead Baker, Northwestern University; Allysen Banks, Roosevelt University; Joe Cacioppo, University of Chicago; Luke Campillo, Drake University; Jessica De Smet, Western Illinois University; Emily DuBois, Northwestern University; Carlos Enriquez, Art Institute of Chicago; Elizabeth Everman, William Jewell College; Ariel Fang, Art Institute of Chicago; Ellie Farmer, Art Institute of Chicago; Stephanie Garcia, Loyola University; William Graham, Northeastern Illinois University; Tatiana Green, Roosevelt University; Thomas Hareland, Roosevelt University; Sean Hattan, Roosevelt University; Lauren Hennelly, University of Wisconsin-Madison; Kristen Johnson, Roosevelt University; Lillian Johnson, Roosevelt University; Kelsey Keaton, Art Institute of Chicago; Renee Kelsey, Roosevelt University; Hannah Koeppl, University of Illinois at Chicago; Jason Kopp, University of Minnesota; Natalie Lake, Northwestern University; Tess Landon, Bard College; Daniel Le, Art Institute of Chicago; Sonia Leon, Elmhurst College; Kristina Lugo, Roosevelt University; William Montag, Bowdoin College; Daniel Montgomery, Indiana State University; Keith Nawls, Roosevelt University; Sylvia Orellana, Northeastern Illinois University; Joy Peplinski, Loyola University; Jonathan Plotner, University of Illinois at Chicago; Allison Pope, Northwestern University; Isabella Rotman, Art Institute of Chicago; Caitlyn Schmid, Loyola University; Marianne Seneczko, University of Chicago; Austin Shoudel, Roosevelt University; Lynika Strozier, Dominican University; Mark Swanson, Illinois Wesleyan University; Alan Swartz, Roosevelt University; Arista Tischner, University of Illinois at Chicago; Elizabeth Velazquez, Northwestern University; Hannah Wirtshafter, Carnegie Mellon University; Andia Ymeraj, Roosevelt University; Joe Zambuto, Roosevelt University; Sara Zufan, DePaul University.

Library
Ramsey DeLano, University of California, Berkeley.

Biodiversity Synthesis Center
Marianna Tzeka, Columbia College, Chicago, IL; Katie Lyons, Nazareth College, Rochester, NY; Sara Parilo, Roosevelt University, Chicago, IL; Kenton Franklin, Roosevelt University, Chicago, IL; Timothy Sauer, Columbia College, Chicago, IL; Adam Orton, Columbia College, Chicago, IL.

Pritzker Laboratory for Molecular Systematics and Evolution
Sara Zufan, DePaul University; Amber Melick, Manchester College; Elizabeth Hamman, Manchester College; Lauren Hennelly, University of Wisconsin; Sergio Garcia, DePaul University; Warren Chatwin,

BYU; Elizabeth Everman, William Jewell College; Krizel Singson, Roosevelt University; Will Montag, Bowdoin College; Graham Haviland, University of Chicago; Melanie Koto, IIT; Daniel Montgomery, Indiana State University; Ari Rice, Lawrence University; Bianca Kapoor; Stanford University.

GRADUATE STUDENT INTERNS

Department of Anthropology

Keitlyn Alcantara, University of Chicago; Kara Bantz, University of Illinois at Chicago; Sara DiDomenico, Northwestern University; Megan Geurts, Purdue University Indianapolis; Sophie Hammond-Hagman, University College London; John Hicks, University of Illinois at Chicago; Rebecca Seifried, University of Illinois at Chicago; Amanda Wolf, Northern Illinois University.

Department of Geology

Jake Crandall, Augustana College; Spencer Hellert, Augustana College; Chelsea Korpany, Cornell College; Kamil Slowikowski, Loyola University; Lisa Vanbiber, NW Missouri State University.

Department of Zoology

Zachary Burington, Clemson University; Martha Iserman, California State University-Monterey Bay.

Library

Ashley Sheriff, University of Illinois at Urbana-Champaign.

Pritzker Laboratory for Molecular Systematics and Evolution

Jimiane Ashe, Stony Brook University; Lu Yao, University of Chicago; Bibiana Moncada, Universidad Nacional de Colombia; Laura Briscoe, Northwestern University; Michelle Tipton, Wesleyan University.

Biodiversity Synthesis Center

Christopher O’Brien, Columbia College, Chicago, IL.

TEACHER INTERNS

Pritzker Laboratory for Molecular Systematics and Evolution

Thomas Champion, Naperville North High School; Evan Martin, Austin Business and Entrepreneurship Academy.

RESIDENT GRADUATE STUDENTS, 2011

DEPARTMENT OF ANTHROPOLOGY

Northwestern University
Pilar Escontrias

University of Chicago
Edna Davion, Lu Yao

University of Illinois at Chicago
Emily Baca, Gabriel Cantarutti, Sofia Chacaltana, Rebecca Deeb, Rory Denison
John Hicks, Caleb Kestle, Colin LeJeune, James Meierhoff, Stephanie Moorman, Matthew Piscitelli, Danielle Riebe, Rebecca Seifried, Doug Smit

DEPARTMENT OF BOTANY

University of Illinois at Chicago
Eimy Rivas-Plata, Todd Widhelm

University of Chicago
Deren Eaton, Matthew Nelsen

Northwestern University
Laura Briscoe

DEPARTMENT OF GEOLOGY

Northwestern University
Richard Barclay, Colleen Michael

University of Chicago
Hilary Christensen, Brandon Kilbourne, Jonathan Mitchell, Nathan D. Smith

DEPARTMENT OF ZOOLOGY

Boston University
Heather Schull

Charles Stuart University
Raoul Davion

University of Chicago
Nicholas Block, Rebecca Dikow, Lucinda Lawson, Joanna Mandecki, Charlene McCord, Aaron Olsen, Benjamin Rubin, Aaron Savit, Christopher Schell, Timothy Sosa, Thomas Stewart, Nathan Upham, Ben Winger, Max Winston

University of Illinois at Chicago
Erika Arnold, Isabel Caballero, David J. Clarke, Michael Jorgensen, Carrie Seltzer, Paúl M. Velazco, John Wilk

Univ. Federal do Pará/Museu Paraense Emilio Goeldi (Brazil)
Sidnei de Melo Dantas

Chulalongkorn University (Thailand)
Chattapat Pongchareon

VOLUNTEERS, 2011

DEPARTMENT OF ANTHROPOLOGY

Kara Bantz, C. Thomas Brockmann, Tatsumi Brown, Kristin Buskirk, Lacey Carpenter, Ellis Caspary, Magdalyne Christakis, Sara Colaianni, Sarah Coleman, Gabriele Da Silva, Victoria DeMartelly, Lauren Fahey, Stephen Feinman, Nancy Feldman, Peter Gayford, William Goldman, Vida Goldstein, Richard Guzik, Graham Haviland, Peggy Hoberg, Katherine Horskotte, Martina Hough, Sam Howard, Janice Kaye, Elisa Kutza, Hilary Leathem, Leonore Levit, Jack MacDonald, Patrick McCarty, Josephina Meleico, Daniel Melone, Courtney Miller, Megan Mueller, Timothy Murphy, Claire Odland, Sam Reynolds, Esther Schechter, Catherine Schur, Rebecca Seifried, Monica Sentoff, Stephen Sentoff, Terri Sinnott, Beth Spencer, Cydney Stasiulus, Lisa Stringer, Meagan Thies, Jean Vondriska, Edward Yastrow, Julia Young

DEPARTMENT OF BOTANY

Stephen Battersby (Flowering Plants), Zorica Dabich (Bryology), Karen Engel (Bryology), Wyatt Gaswick (Mycology), Richard Hyerczyk (Mycology), Nancy Klaud (Scientific Illustration/Flowering Plants), Alice Piller (Mycology), Walter Reising (Data preparation/Digital imaging), John Schmadeke (Flowering Plants), Leon Shernoff (Mycology), Peter Sullivan (Flowering Plants)

DEPARTMENT OF GEOLOGY

William D. Adams (Vertebrate Paleontology), Jan Marie Aramini (Vertebrate Paleontology), Lauren Ballewske (Vertebrate Paleontology), Jill Bargiel (Scientific Illustration), Janice Beck (Vertebrate Paleontology), Kelly Bice (Vertebrate Paleontology), Leonid Buzyna (Vertebrate Paleontology), Steven R. Clawson (Vertebrate Paleontology), Irene Broede (Vertebrate Paleontology), Mary Sue Coates (Physical Geology), Larry Coronelli (Paleobotany), Elizabeth Dybal (Vertebrate Paleontology/Physical Geology), Mike Eklund (Vertebrate Paleontology), Erin Fitzgerald (Vertebrate Paleontology), Peter Fortsas (Paleobotany), Stephen Gieser (Vertebrate Paleontology), Michael Hanson (Vertebrate Paleontology), Tom Kerstann (Vertebrate Paleontology), Dennis Kinzig (Vertebrate Paleontology), Jason Kluga (Vertebrate Paleontology), Joanne Kluga (Vertebrate Paleontology), Christian Larsen (Vertebrate Paleontology), Alix Lukas (Vertebrate Paleontology/Scientific Illustration), Katie McComas (Vertebrate Paleontology), John McConnell (Paleobotany), Elisabeth Meeker (Vertebrate Paleontology), Brian Morrill (Vertebrate Paleontology), Timothy Nelson (Vertebrate Paleontology), Karen Nordquist (Vertebrate Paleontology), Clarita Nuñez (Physical Geology), Elizabeth Pelker (Physical Geology/Meteoritics), Mary Peters (Vertebrate Paleontology), Daniel Piquard (Vertebrate Paleontology), Catherine Pries (Invertebrate Paleontology), Jenna Rieker (Vertebrate Paleontology), Bob Rosenberg (Vertebrate Paleontology), Anne-Elizabeth Stone (Physical Geology), Charles Struck (Vertebrate Paleontology), Samuel Sullivan (Vertebrate Paleontology), Hedy Turnbull (Vertebrate Paleontology), Karen Vendl (Physical Geology), Mark Vendl (Physical Geology), Aki Watanabe (Vertebrate Paleontology), Meghan White (Vertebrate Paleontology), Rebecca Williams (Vertebrate Paleontology), Jack Wittry (Paleobotany and Invertebrate Paleontology), Kurt Zahnle (Vertebrate Paleontology), William Zandrew (Vertebrate Paleontology), Elaine Zeiger (Paleobotany), Steven Zitowsky (Vertebrate Paleontology).

DEPARTMENT OF ZOOLOGY

Sarah Akinde (Invertebrates), Eric Ahlgren (Fishes), Lucas Altschwager (Insects), Bob Andrini (Birds), Marie Angkuw (Birds), Tom Anton (Amphibians and Reptiles), Paul Baker (Birds), Tom Beauvais (Amphibians and Reptiles), Nancy Bigelow (Insects), Richard Bloomfield (Insects), Helen C. Bonbrest

(Invertebrates), Joan Bruchman (Birds), Casey Buchanan (Birds), Renee Buecker (Insects), Peter Buol (Birds), Drew Carhart (Insects), Stephanie Clark (Invertebrates), Tracy Damitz (Mammals), Robin Delapena (Insects), Jessica De Smet (Insects), Jameson Doody (Mammals), John Dorshorst (Insects), Stanley Dvorak (Invertebrates), Marion Dunn (Fishes), Alison Ebert (Mammals), Ralph Eiseman (Birds), Amanda Franck (Insects), Glenn Gabanski (Birds), Dr. Arlene Ghiron (Insects), Harvey Golden (Mammals), Anna Goldman (Insects), Joan Goldstein (Fishes), Richard Guzik (Invertebrates), Erin Hall (Mammals), Joanna Hosteny (Birds), Jeff Hoswell (Fishes), Gerry Hough (Insects), Graham Hoviland (Mammals), Lisa Hung (Insects), Herbert Hymen (Birds), Edwin Kapus (Invertebrates), Dr. James P. Kase (Insects), Kelsey Keaton (Insects), Arlene Koziol (Birds), Sara Kunkel (Birds), Tess Landon (Insects), Kahlee Leingang (Mammals), Thomas Lesh (Invertebrates), Joanne Levy (Amphibians and Reptiles), Ruben Madriz (Insects), Gaetano Marangelli (Birds), Teresa Mayfield (Amphibians and Reptiles), Kasey Mennie (Birds), Jennifer Michaud (Insects), Steve Moore (Mammals), Susan Okey (Insects), Sylvana Peneff (Birds), Roger Reason (Amphibians and Reptiles), Sheila Reynolds (Mammals), Alia Rezk (Mammals), Aspen Reese (Mammals), Alexandra Rose (Invertebrates), Lindsay Rowland (Birds), Justin Schiro (Birds), Meera Sethi (Birds), Stephanie Shagura (Invertebrates), Twisha Shah-Brandenburg (Insects), Elizabeth Simmons (Insects), Terri Sinnott (Fishes), Heather Skeen (Birds), Tracey Slade (Insects), Lauren Smith (Mammals), Rebecca Smith (Invertebrates), Dave Strecker (Insects), Diana Sudyka (Birds), Joshua Traub (Amphibians and Reptiles), Sandra Van Tilburg (Birds), Christine Vittoe (Invertebrates), Matthew Vrazo (Invertebrates), David Walker (Invertebrates), Jonathan Warnock (Invertebrates), Robert Weiglein (Birds), Mary Wells (Mammals), Helen Wilson (Mammals), Joseph Zich (Invertebrates).

PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION

Eileen Feldheim.

LIBRARY

Patricia Barker, Elizabeth Giles, Kristin Jacobsen, Constance Jurczyk, John Nordloh, China Oughton, Barbara Palmer, Gwyn Smith, Constance Thome, Hsi-Tsin Tsiang, Mary Valsa, Warren Valsa, John Vicha, Wendall Wilson.

HONORARY APPOINTMENTS, 2011

DEPARTMENT OF ANTHROPOLOGY

Curators Emeritus
Phillip Lewis, Ph.D., Primitive Art, Melanesian Ethnology
Bennet Bronson, Ph.D., Asian Archaeology and Ethnology

Adjunct Curators
Elizabeth Abrams, Ph.D., Biomedical Anthropology
Dean E. Arnold, Ph.D., Mesoamerican and South American Archaeology and Ethnology
Brian Bauer, Ph.D., Andean Archaeology
Deborah Bekken, Ph.D., East Asian Archaeology and Zooarchaeology
James A. Brown, Ph.D., North American Archaeology
Elizabeth Brumfiel, Ph.D., Mesoamerican Archaeology
Winifred Creamer, Ph.D., Archaeology of the Americans
Antonio Curet, Ph.D., Circum-Caribbean Anthropology
Molly Doane, Ph.D., Sociocultural Anthropology
Timothy Earle, Ph.D., Archaeology of Complex Societies
Robert L. Hall, Ph.D., Plains and Midwestern Archaeology and Ethnography
Mitch Hendrickson, Ph.D., Southeast Asian Archaeology
Chuimei Ho, Ph.D., East and Southeast Asian Art and Archaeology
Paul Hockings, Ph.D., Southern Asia Social Anthropology
Katherine Hoffman, Ph.D., Linguistic and Sociocultural Anthropology
Laura Junker, Ph.D., Complex Societies, Maritime Trade, and Ceramic Production
Lawrence H. Keeley, Ph.D., Europe and North American Paleolithic Archaeology
Waud Kracke, Ph.D., Social Anthropology, Psychoanalysis, Dreams
Sibel Barut Kusimba, Ph.D., African Archaeology
Christopher W. Kuzawa, Ph.D., Health, Human Growth and Development
Vincent LaMotta, Ph.D., Bioarchaeology, American Southwest Archaeology
William Leonard, Ph.D., Biological Anthropology
Mark Lietchty, Ph.D., Anthropology and History
Thomas McDade, Ph.D., Human Biology
John Monaghan, Ph.D., Anthropology and History, Religion
Donna Nash, Ph.D., Andean Archaeology
Linda Nicholas, M.A., Mesoamerican Archaeology
Joel Palka, Ph.D., Mesoamerican Archaeology
Crystal Patil, Ph.D., Global Health
James L. Phillips, Ph.D., Old World Prehistory, Stone Tools
Jack H. Prost, Ph.D., Physical Anthropology and Primate Behavior
Gayatri Reddy, Ph.D., Cultural, Gender Anthropology
Cynthia Robin, Ph.D., Archaeology, Social Organization
Helen B. Schwartzman, Ph.D., Psychological Anthropology
Sylvia Vatuk, Ph.D., Cultural, Gender, and Urban Anthropology, India
Mary J. Weismantel, Ph.D., Cultural Anthropology, Food, Adoption
Sloan Williams, Ph.D., South American Bioarchaeology

Research Associates
Kathleen Adams, Ph.D., Sociology
Babunte Agbaje-Williams, Ph.D., African Anthropology
Philip J. Arnold, III, Ph.D., Mesoamerican Archaeology, Craft Production and Ethnoarchaeology Sylvia
Astalis, Ph.D., Evolutionary Anthropology

Elizabeth Babcock, Ph. D., Cultural Anthropology
Richard Blanton, Ph.D., Mesoamerican Archaeology
Jane E. Buikstra, Ph.D., Skeletal Biology, Paleopathology, Paleodemography, Forensic Anthropology
Maria Cattell, Ph.D., Anthropology and Gender, Age
Raymond Codrington, Ph.D., Cultural Anthropology
Michael David Colvard, DDS, Medical Anthropology
William J. Conklin, Ph.D., Peruvian Anthropology
Nicole Couture, Ph.D., Latin America
Christine Dunford, Ph.D., Ecology, Cultural Anthropology
Robert Feldman, Ph.D., Andean Archaeology
David Goldstein Ph. D., South American Anthropology
Ruth Gomberg-Munoz, Ph.D., Political and Economic Anthropology
Anne. L. Grauer, Ph.D., Physical Anthropology, Skeletal Biology, North America
Mark Hauser, Ph. D., Historical Archaeology and Archaeology of African Diasporas
Augustin Ferdinand Charles Holl, Ph.D., West African Prehistory, African-American Archaeology
John Janusek, Ph.D., Andean Archaeology
Carolyn Schiller Johnson, Ph.D., Ethnomusicology
James Ketelaar, Ph.D., East Asian History
Purity W. Kiura, Ph. D., African Archaeology
Alan L. Kolata, Ph.D., Andean Archaeology and Ethnohistory
Lyle Konigsberg, Ph.D., Physical Anthropology
Sharon Lewis Peniston, Ph.D., Urban anthropology, Kinship structures, U.S. and Caribbean
Elizabeth Ann Lillehoj, Ph.D., Japan, Material Culture
Maria C. Lozada, Ph.D., Peruvian Archaeology
Edward F. Maher, Ph. D., Ancient Eastern Mediterranean, Zooarchaeology
Maxine E. McBrinn, Ph. D., Southwestern Archaeology
Donald E. McVicker, Ph.D., Mesoamerican Archaeology
Michael E. Moseley, Ph.D., South American Archaeology
Katherine Nelson, Ph.D., Andean Archaeology
Rahul Oka, Ph.D., African Anthropology
Nadine Ruth Peacock, Ph.D., Biological Anthropology, Africa
William Pestle, Ph.D., Biological Anthropology
Chantal Radimilahy, Ph. D., Gender and Environmental Archaeology, Madagascar
Mario Rivera, Ph.D., Andean Archaeology
Robert L. Rotenberg, Ph.D., Cultural Anthropology
Esther Schechter, Ph.D., New Guinea Research Program
Fred H. Smith, Ph.D., Physical Anthropology
Charles Stanish, Ph.D., Andean Anthropology
Gil J. Stein, Ph.D., Near Eastern Archaeology
Ann L.W. Stodder, Ph.D., Bioarchaeology, Oceania
Emily Stovel, Ph.D., Andean Anthropology
Mary Thieme, M.A., Mesoamerican Archaeology
Zhu Tiequan, Ph.D., Asian Anthropology
Russell Tuttle, Ph.D., Biological Anthropology
Kevin Vaughn, Ph. D., Andean Anthropology
Ronald Weber, Ph.D., Amazon Basin and Northwest Coast Archaeology and Ethnology
William Whitehead, Ph.D., Andean Anthropology
Karen Wilson, Ph.D., Art and Archaeology of the Ancient Near East

Associates
Daniel Brinkmeier, M.S., South American Anthropology
Connie Crane, B.A., North American Ethnology
Peter Gayford, B.A., African Archaeology and Ethnology

Jack M. MacDonald, M.S., Oceania
Carolyn Moore, B.A., Asian Material Culture
Claire Odland, M.A., African and South American Textiles
Lisa Stringer, M.A., Archaeology
Edward Yastrow, B.A., Human Origins

DEPARTMENT OF BOTANY

Curators Emeritus

William Burger, Ph.D., Flowering Plants
Michael O. Dillon, Ph.D., Flowering Plants
John J. Engel, Ph.D., Bryology

Adjunct Curators

William A. Alverson, Ph.D., Flowering Plants
Peter G. Avis, Ph.D., Mycology
Robin B. Foster, Ph.D., Flowering Plants
Patrick Leacock, Ph.D., Mycology
Robert Lücking, Ph.D., Lichenology
Gary L. Smith Merrill, Ph.D., Bryology
Matt von Konrat, Ph.D., Bryology/Pteridophytes

Visiting Curators

Fred R. Barrie, Ph.D., Flowering Plants

Research Associates

Carrie J. Andrew, Ph.D., Mycology
Peter Avis, Ph.D., Mycology
Daniel Ballhorn, Ph.D., Lichenology
John E. Braggins, Ph.D., Bryophytes
Julieta Carranza, Ph.D., Mycology
Ana Crespo, Ph.D., Lichenology
Eve Emshwiller, Ph.D., Ethnobotany
Fernando A. Fernandez, Ph.D., Mycology
Jesús Garcia Jiminez., Biol., Mycology
Nancy Garwood, Ph.D., Flowering Plants
Sidney F. Glassman, Ph.D., Flowering Plants
David S. Glenny, Ph.D., Bryology
Luis D. Gómez, Ph.D., Mycology
James G. Graham, Ph.D., Flowering Plants
J. Kelly Gravier, Ph.D., Mycology
Matthew Greif, Ph.D., Mycology
Nancy Hensold, Ph.D., Flowering Plants
Patrick Herendeen, Ph.D., Flowering Plants
Andrew Hipp, Ph.D., Flowering Plants
Sara Hoot, Ph.D., Flowering Plants
Michael Huft, Ph.D., Flowering Plants
Richard Hyerczyk, B.S., Lichenology
Boris Igic, Ph.D., Flowering Plants
Wei Jiang-Chun, Ph.D., Mycology
Marian R. Kadushin, Ph.D., Flowering Plants
Jason Koontz, Ph.D, Flowering Plants

Thomas G. Lammers, Ph.D., Flowering Plants
Jorgé Gómez Laurito, B.S., Flowering Plants
Segundo Leiva González, Ph.D., Flowering Plants
David Lentz, Ph.D., Flowering Plants
Blanca Leon, Ph.D., Pteridology
David P. Lewis, M.S., Mycology
Richard A. Lupia, Ph.D., Paleobotany
James Luteyn, Ph.D., Flowering Plants
François M. Lutzoni, Ph.D., Lichenology
Maria de Milagro Mata Hidalgo, Mycology
Susana A. Magallón-Puebla, Ph.D., Paleobotany
Roberta Mason-Gamer, Ph.D., Flowering Plants
Rogers McVaugh, Ph.D., Flowering Plants
Maria Ines Messuti, Ph.D., Mycology
Andrew Miller, Ph.D., Mycology
Gregory M. Mueller, Ph.D., Mycology
Michael Nee, Ph.D., Flowering Plants
Cirilo Nelson, Ph.D., Flowering Plants
Lorin I. Nevling, Jr., Ph.D., Flowering Plants
Khwanruan Papong, Ph.D., Lichenology
Kathleen Pryer, Ph.D., Pteridology
Victor Quipuscoa Silvestre, Ph.D., Flowering Plants
James Rastorfer, Ph.D., Bryology
Jacinto C. Regalado, Jr., Ph.D., Flowering Plants
Isidoro Sanchez Vega, Ph.D., Flowering Plants
Imke Schmitt, Ph.D., Lichenology
Rudolf M. Schuster, Ph.D., Bryology
Alan R. Smith, Ph.D., Pteridology
D. Doel Soejarto, Ph.D., Flowering Plants
Tod F. Stuessy, Ph.D., Flowering Plants
Jun Wen, Ph.D., Flowering Plants
Norman Wickett, Ph.D., Bryology
Evelyn Williams, Ph.D., Flowering Plants
Andrew Wilson, Ph.D., Mycology
Kenneth Young, Ph.D., Flowering Plants
Nyree Zerega, Ph.D., Flowering Plants

Field Associates

Sandra Knapp, Ph.D., Flowering Plants
Antonio Molina R., Ing. Agr., Flowering Plants

Associates

Anders Hagborg, B.S., Bryology
Betty Strack, M.S., Mycology
Gayle Tonkovich, M.S., Flowering Plants

DEPARTMENT OF GEOLOGY

Curators Emeritus

John R. Bolt, Ph.D., Fossil Amphibians and Reptiles
Matthew H. Nitecki, Ph.D., Fossil Invertebrates

Adjunct Curators
Ian Glasspool, Ph. D., Paleobotany
Paul P. Sipiera, Ph. D., Meteoritics

Research Associates
William L. Abler, Ph.D., Fossil Vertebrates
Edgar Allin, Ph.D., Fossil Vertebrates
Gloria Arratia, Ph.D., Fossil Fishes
Allison L. Beck, Ph.D., Fossil Vertebrates
William Bemis, Ph.D., Fossil Vertebrates
Daniel B. Blake, Ph. D., Fossil Invertebrates
C. Kevin Boyce, Ph.D., Paleobotany
Christopher A. Brochu, Ph.D., Fossil Vertebrates
Greg Buckley, Ph.D., Fossil Vertebrates
Andrew Campbell, Ph.D., Meteoritics
Matthew T. Carrano, Ph.D. Fossil Vertebrates
Julia A. Clarke, Ph.D., Fossil Vertebrates
Robert Clayton, Ph.D., Meteoritics/Geochemistry
Michael Ivor Coates, Ph.D., Fossil Fishes
Peter R. Crane, Ph.D., Paleobotany
Darin A. Croft, Ph.D., Fossil Vertebrates
Nicolas Dauphas, Ph.D., Cosmochemistry
Andrew Davis, Ph.D., Meteoritics/Geochemistry
David Kenneth Elliott, Ph.D., Fossil Vertebrates
Greg Erickson, Ph.D., Fossil Vertebrates
Daniel Fisher, Ph.D., Fossil Invertebrates
John Flynn, Ph.D., Fossil Mammals
Michael Foote, Ph.D., Fossil Invertebrates
Catherine Forster, Ph.D., Fossil Vertebrates
Nadia B. Fröbisch, Ph.D., Fossil Vertebrates
Gary Galbreath, Ph.D., Fossil Vertebrates
Terry Allen (Bucky) Gates, Ph.D., Fossil Vertebrates
Timothy Gaudin, Ph.D., Fossil Mammals
Terry Grande, Ph.D., Fossil Fishes
Gerald Grellet-Tinner, Ph.D., Dinosaurs
Lawrence Grossman, Ph.D., Meteoritics
Thomas Guensburg, Ph.D., Fossil Invertebrates
William Hammer, Ph.D., Fossil Reptiles
Eric Hilton, Ph.D., Fishes
James Hopson, Ph.D., Fossil Vertebrates
David Jablonski, Ph.D., Fossil Invertebrates
Christine Janis, Ph.D., Fossil Mammals/other verts.
Harry J. Jerison, Ph.D., Fossil Vertebrates
David Krause, Ph.D., Fossil Vertebrates
Michael LaBarbera, Ph.D., Fossil Invertebrates
Riccardo Levi-Setti, Ph.D., Fossil Invertebrates
R. Eric Lombard, Ph.D., Fossil Vertebrates
Ernest Lundelius, Ph.D., Fossil Mammals
Jennifer C. McElwain, Ph.D., Paleobotany
Frank McKinney, Ph.D., Fossil Invertebrates
Doris Nitecki, Fossil Invertebrates
Philip M. Novack-Gottshall, Ph.D., Fossil Invertebrates
Lynn K. Nyhart, Ph.D., Fossil Invertebrates/History of Biology

J. Michael Parrish, Ph.D., Fossil Reptiles
Roy E. Plotnick, Ph.D., Fossil Invertebrates
Robert R. Reisz, Ph.D., Fossil Reptiles
Frank M. Richter, Ph.D., Meteoritics
Ray Rogers, Ph.D., Sedimentology
Rudyard W. Sadleir, Ph. D., Fossil Vertebrates
Birger Schmitz, Ph.D., Meteoritics
Paul Sereno, Ph.D., Fossil Reptiles
Neil H. Shubin, Ph.D. Fossil Vertebrates
Thomas Stephan, Ph.D., Meteroritics
Neil C. Sturchio, Ph.D., Meteoritics
Stuart S. Sumida, Ph.D., Fossil Vertebrates
Stephen R. Sutton, Ph.D., Meteoritics
Alfred Traverse, Ph.D., Fossil Plants/Paleopalynology
Meenakshi Wadhwa, Ph.D., Meteoritics
Mark Webster, Ph.D., Fossil Invertebrates
Robin Whatley, Ph.D., Fossil Vertebrates
André Wyss, Ph.D., Fossil Mammals

DEPARTMENT OF ZOOLOGY

Curator Emeritus
Robert F. Inger, Ph.D., Amphibians and Reptiles
Alfred F. Newton, Ph.D., Insects
Harold K. Voris, Ph.D., Amphibians and Reptiles

Field Associates
Tom Anton, M.A., Midwestern Amphibians and Reptiles
Sherif Baha El Din, M.S., Herpetology of Egypt
Barbara Becker, M.A., Zoology Research
Somchai Bussarawit, B.S., Marine Biology
Tanya Chan-ard, M.S., Forest Biology and Herpetology
Merel J. Cox, M.S., Geology, Snakes of Thailand
Leif Davenport, Mammals of Burundi
Susan Davis, M.S., Neotropical Birds
Terrence C. Demos, M.Sc., African Small Mammals
Steve Fratello, Guyanan Butterflies
Bruce Hayward, Ph.D., African Mammals
Nina R. Ingle, Ph.D., Philippine Mammals and Conservation
Djoko T. Iskandar, Ph.D., Genetic and Systematics of Amphibians
Maklarin Lakim, Research Officer
Vachira Lheknim, Ph.D., Fish of Thailand
Ruben I. Madriz, B.S., Insects Cryogenic Collections
Kelvin Lim Kok Peng, Amphibians and Reptiles
Antonio Machado-Allison, Ph.D., South American Fishes
David Matusik, Lepidoptera Taxonomy
Gregory Mayer, Ph.D., Organismic and Evolutionary Biology
Manuel A. Plenge, Peruvian Bird Distribution
Blas Tabaranza, M.S., Philippine Mammals
Jamie Thomerson, Ph.D., Central and South American Fishes
Ruth Utzurrum, Ph.D., Philippine Mammals

Research Associates

David Angulo, M.S., Computer Technology and Databases
Michael Alfaro, Ph.D., Molecular Systematics
Anchalee Aowphol, Ph.D., Ecology and Population Genetics
Mary Ashley, Ph.D., Conservation Genetics
Wirt Atmar, Ph.D., Diversity and Community Structure
Danny Balete, M.S., Philippine Mammals and Conversation
Rosemary Barraclough, Ph.D., Blood Bird Parasites
Jason E. Bond, Ph.D., Systematics of Diplopoda and Araneae
Rauri Bowie, Ph.D., African Bird Systematics
John Cadle, Ph.D., Herpetology
Angelo Capparella, Ph.D., Evolution of Neotropical Birds
Jose Maria Cardoso da Silva, Ph.D., Amazonian Birds
Barry Chernoff, Ph.D., South American Fishes/Conservation
Stephanie Clark, Ph.D., Land and Freshwater Gastropods
Dale Clayton, Ph.D., Host/Parasite Coevolution
Melissa Cogan-Morales, Ph.D., Bat Morphology
Timothy Collins, Ph.D., Molecular Evolution of Mollusks
Norbert Cordeiro, Ph.D., Ecology of African Birds
Joel Cracraft, Ph.D., Avian Systematics and Evolutionary Biology
Kevin S. Cummings, Ph.D., Freshwater Bivalves
Marian Dagosto, Ph.D., Primates Carl W. Dick, Ph.D., Systematics of Streblidae (Diptera)/Host-Parasite Biology
Katharina Dittmar, Ph.D., D.V.M. Bat – Bat Fly Coevolution
Michael L. Draney, Ph.D., Systematics of Linyphiidae (Araneae)
Amy Driskell, Ph.D., Evolution of Birds and Bioinformatics
Brian Dyer, Ph.D., Biomechanics
Jacob Esselstyn, Ph.D., Asian and African Mammals
John Fitzpatrick, Ph.D., Evolutionary Ecology and Biogeography of Neotropical Birds
Timothy Gaudin, Ph.D., Edentates
Daniel Gebo, Ph.D., Primates Cynthia Gerstner, Ph.D., South American Armored Catfishes
Gonzalo Giribet, Ph.D., Marine Mollusks
Jaqueline Goerck, Ph.D., Conservation in Brazil
Paul Z. Goldstein, Ph.D., Systematics of Lepidoptera
Joel Greenberg, Ph.D., Chicago Natural History
Justin R. Grubich, Ph.D., Coral Reefs and Biomechanics
Melina Hale, Ph.D., Biomechanics
John Harshman, Ph.D., Systematics of Birds
Malcolm Hast, Ph.D., Mammalian Vocal Apparatus
John M. Healy, Ph.D., Marine Mollusks
Jacques Hill, Ph.D., Southeast Asian Herpetology
Michael S. Horn, Ph.D., Computer Science
Rainer Hutterer, Ph.D., Mammalian Insectivores
Bruce C. Jayne, Ph.D., Marine and Estuarine Snakes
William B. Jefferies, Ph.D., Coevolution and Symbiosis in Crustaceans
Zifeng Jiang, Ph.D., Genomics of Emerging Pathogens
Ulf Johanson, Ph.D, Himalayan Bird Ecology
Kevin Johnson, Ph.D., Systematics and Evolution of Birds
Christian Kammerer, B.S., Deep Sea Fishes
Daryl Karns, Ph.D., Herpetology and Community Ecology
Douglas Kelt, Ph.D., South American Mammals
David H. Kistner, Ph.D., Systematics of Staphylinidae Associated with Ants and Termites
James Koeppl, Ph.D., Statistical Properties of Animal Populations

Michael LaBarbera, Ph.D., Biomechanics
Edgar Lehr, Ph.D., Neotropical Herpetology
Peter E. Lowther, Ph.D., Field Museum Nest and Egg Collection
Vimoksalehi Lukoschek, Ph.D., Marine and Estuarine Snakes
Jessie Maisano, Ph.D., Skeletal Morphology of Squamates
Luisa Marcelino-Backman, Ph.D., Corals
Christopher J. Marshall, Ph.D., Systematics of Coleoptera
Sean Menke, Ph.D., Evolutionary Ecology of Formicidae (Hymenoptera)
Peter Meserve, Ph.D., Population Ecology of Mammals
Paula M. Mikkelsen, Ph.D., Marine Mollusks
John C. Murphy, M.S., Herpetology
Charles Nadler, M.D., Sciuridae
John O'Neill, Ph.D., Neotropical Birds
Link Olson, Ph.D., Malagasy Mammals
Perry Ong, Philippine Mammals
Jennifer Osterhage, Ph.D., Molecular Biology and Genetics
Victor Pacheco, M.A., Peruvian Mammals
Somsak Panha, Ph.D., Land Gastropods of Southeast Asia
Ronald Panzer, Ph.D., Invertebrate Conservation
Stewart B. Peck, Ph.D., Systematics of Coleoptera
Richard E. Petit, Marine Gastropods
Paulo Petry, Ph.D., South American Fishes
Ronald Pine, Ph.D., Taxonomy of South American Mammals
James Pokines, Ph.D., Taphonomy-Archeology of Mammal Bones
Jan Johan ter Poorten, Ph.D., Cardiidae Taxonomy
Trevor Price, Ph.D., Ecology and Evolution of Asian Warblers
Stephen Pruett-Jones, Ph.D., Behavior and Ecology of Birds
George B. Rabb, Ph.D., Taxonomy of Salamanders, Phylogeny of Snakes
Timothy Rawlings, Ph.D., Marine Mollusks
Justine Ray, Ph.D., Central African Mammals
Matthew Ravosa, Ph.D., Primates
Sushma Reddy, Ph.D., Asian Biogeography and Phylogenetics
Scott Robinson, Ph.D., Neotropical Birds
Callum Ross, Ph.D., Biomechanics
Luis Ruedas, Ph.D., Southeast Asian Mammals
Jennifer Fessler Salazar, Ph.D., Butterflyfish Phylogenetics and Biogeography
Victor Sanchez-Cordero, Ph.D., Mexican Mammals
Noé U. de la Sancha, Ph.D., Paraguayan Mammals
Thomas Schulenberg, Ph.D., Neotropical Birds
Jodi Sedlock, Ph.D., Bat Ecology
Sergio Solari, M.S., Mammals of Peru
Alexey Y. Solodovnikov, Ph.D., Systematics of Staphylinidae (Coleoptera)
Bill Strausberger, Ph.D., Cowbirds
Bryan L. Stuart, Ph.D., Herpetology
Robert Stuebing, M.S., Malaysian Ecology
Tan Fui Lian, Amphibians and Reptiles of Borneo
José Tello, Ph.D., Evolution and Diversification of Birds
Kumthorn Thirakhupt, Ph.D., Southeast Asian Herpetology
Vinton Thompson, Ph.D., Systematics of Hemiptera
Robert Timm, Ph.D., New World Mammals
David E. Vaughn, Ph.D., Coral Reefs
Paúl Velazco, Ph.D., Neotropical Mammals
Gary Voelker, Ph.D., Bird Systematics

Bruce Walsh, Ph.D., Systematics of Lepidoptera
Joseph Walsh, Ph.D., Mammalian Systematics
Paul W. Webala, Ph.D., Kenyan Bats
Jason Weir, Ph.D., Evolution and Diversification of Birds
Fred F. Wells, Ph.D., Marine Mollusks
Kevin White, Ph.D., Genomics of Emerging Pathogens
Chris Yahnke, Ph.D., Neotropical Mammals
Andrew Yang, Ph.D., Systematics of Formicidae (Hymemoptera)
Anne Yoder, Ph.D., Primate Evolution
John Yunger, Ph.D., Mammals of the Chicago Area

Associates
Matt Bonnan, Ph.D., Vertebrate Paleontology
Daniel A. Brinkmeier, B.F.A., M.Sc., Education and Outreach
Barbara Brown, B.A., Primates
Lauren E. Brown, Ph.D., Herpetology of Midwestern U.S.
Thomas M. Butynski, Ph.D., African Primates
Sidney Camras, M.D., Systematics of Conopidae (Diptera)
Arvin C. Diesmos, M.S., Philippines Amphibians
Barbara A. Harney, M.S., Mammal Ecology
N. Aldrin D. Mallari, M.S., Philippines Conservation
Peggy McNamara, Artist
Clara Richardson, M.S., Scientific Illustrator
Nina Sandlin, B.A., Taxonomy of Linyphiidae (Araneae)
Maria Josefa Veluz, M.S., Philippine Mammals
John A. Wagner, Ph.D., Systematics of Staphylinidae: Pselaphinae (Coleoptera)

LIBRARY

Associates
Paul Brinkman, Ph.D., Library
Ken Grabowski, M.S, Library

COLLECTION STATISTICS, 2011
Collection Size and Growth

	2010 Number of Specimens	2011 Number of Specimens	2010-2011 growth
DEPARTMENT OF ANTHROPOLOGY			
Africa	108,998	109,036	8
Europe	37,560	37,560	0
Asia	94,572	94,860	288
South America	54,885	54,885	0
Central & Middle America	28,075	28,389	314
North America	664,805	664,855	50
Pacific	59,148	59,165	17
Osteological Collection	31,791	31,791	0
Subtotal	**1,079,834**	**1,080,541**	**707**
DEPARTMENT OF BOTANY			
Algae	78,142	78,142	0
Bryophytes	237,000	249,324	12,324
Ferns	181,280	181,338	58
Fungi (including lichens)	204,040	206,508	2,468
Seed Plants	2,157,664	2,158,933	1,269
Subtotal	**2,858,126**	**2,874,245**	**16,119**
DEPARTMENT OF GEOLOGY			
Physical Geology	53,245	54,930	1,685
Invertebrate Paleontology	322,758	322,852	94
Paleobotany	88,231	88,830	599
Vertebrate Paleontology	82,244	82,579	335
Subtotal	**546,478**	**549,191**	**2,713**
DEPARTMENT OF ZOOLOGY			
Amphibians and Reptiles	293,980	294,372	392
Birds	493,001	500,641	7,640
Fishes	1,907,142	1,912,770	5,628
Insects	12,481,618	12,509,735	28,117
Invertebrates	4,615,651	4,641,706	26,055
Mammals	210,374	214,918	4,544
Subtotal	**20,001,766**	**20,074,142**	**72,376**
TOTAL SPECIMENS	**24,486,204**	**24,578,119**	**91,915**

COLLECTION STATISTICS, 2011

Outgoing Loans from Field Museum Collections

	Number of Loans	Number of Specimens
DEPARTMENT OF ANTHROPOLOGY		
Subtotal	**8**	**47**
DEPARTMENT OF BOTANY		
Algae	0	0
Bryophytes	9	296
Ferns	1	3
Fungi (including lichens)	23	316
Seed Plants	53	5,451
Subtotal	**86**	**6,066**
DEPARTMENT OF GEOLOGY		
Physical Geology	32	96
Invertebrate Paleontology	11	268
Paleobotany	11	210
Vertebrate Paleontology	33	288
Subtotal	**87**	**862**
DEPARTMENT OF ZOOLOGY		
Amphibians and Reptiles	70	1,853
Birds	120	3,264
Fishes	28	1,006
Insects	51	6,976
Invertebrates	48	8,641
Mammals	60	2,306
Subtotal	**377**	**24,046**
TOTAL	**558**	**31,021**

COLLECTION STATISTICS, 2011

Incoming Loans from Other Institutions or Parties

	Number of Loans	Number of Specimens
DEPARTMENT OF ANTHROPOLOGY		
Subtotal	**1**	**7**
DEPARTMENT OF BOTANY		
Algae	0	0
Bryophytes	25	203
Ferns	0	0
Fungi (including lichens)	25	1,171
Seed Plants	8	549
Subtotal	**58**	**1,923**
DEPARTMENT OF GEOLOGY		
Physical Geology	3	4
Invertebrate Paleontology	0	0
Paleobotany	1	9
Vertebrate Paleontology	n/a	n/a
Subtotal	**4**	**13**
DEPARTMENT OF ZOOLOGY		
Amphibians and Reptiles	13	111
Birds	5	61
Fishes	10	653
Insects	30	2,745
Invertebrates	6	419
Mammals	7	20
Subtotal	**71**	**4,009**
TOTALS	**134**	**5,952**

COLLECTION STATISTICS, 2011

Use of Collections by Visitors

	Scientific Visitors		Classes		Public Outreach	
	Total Visitors	Total Visitor Days	Total Classes	Total Students	Total Tours	Total Visitors
ANTHROPOLOGY						
Subtotal	**113**	**105**	**3**	**30**	**140**	**1,386**
BOTANY						
Bryophytes	5	55	0	0	1	20
Fungi (including lichens)	13	185	0	0	4	37
General Herbarium	0	0	8	126	6	45
Seed Plants	76	292	0	0	0	0
Subtotal	**94**	**532**	**8**	**126**	**11**	**102**
GEOLOGY						
Physical Geology	24	40	0	0	0	0
Invertebrate Paleo	28	52	2	20	1	1
Paleobotany	19	43	4	47	5	52
Vertebrate Paleo	85	195	0	0	0	0
Subtotal	**156**	**330**	**6**	**67**	**6**	**53**
ZOOLOGY						
Amphib./Reptiles	66	456	9	125	39	237
Birds	43	771	20	300	175	1,300
Fishes	70	153	31	811	47	249
Insects	38	145	9	245	24	125
Invertebrates	20	26	0	0	7	53
Mammals	180	824	95	772	337	1,863
Subtotal	**417**	**2,375**	**164**	**2,253**	**629**	**3,827**
TOTALS	**780**	**3,342**	**181**	**2,476**	**786**	**5,368**

LIBRARY STATISTICS, 2011

Monographs/Serial Acquisitions

Monograph Purchase	Monograph Exchange	Serial Subscriptions	Serial Exchange	Gift
114	91	277	1,119	187

Cataloging Stats

	New Records	Record Updates	Images
General Collection	1,211	327	0
Rare Book Collection	401	0	0
Photo Archives	2,402	0	12,576

Collection Use

	Museum	Public/External Requests	Biodiversity Heritage Library Scanning
General Collection	881	74	97
Rare Book Room	27	19	0
Archives	121	76	
Photo Archives	99	133	
Interlibrary Loan	132	605	

BIODIVERSITY SYNTHESIS CENTER, 2011

The Encyclopedia of Life (EOL) serves as an open-access online reference and database for information on every named species. The EOL is used as both a teaching and a learning tool; helping scientists, educators, students, and the community at large gain a better understanding of biodiversity and evolution. By 2013, EOL aims to 1) generate one million species pages, each containing content verified by scientific experts, 2) digitize a large portion of the core biodiversity literature, 3) generate educational materials for students, schools and universities, and citizen scientists, and 4) use EOL page content and cross-linkages as a resource to generate new synthetic knowledge about the world's biodiversity.

The project, funded by the MacArthur and Sloan Foundations, brings together several of the world's leading natural history institutions, including the Smithsonian Institution, the Field Museum, Harvard University, the Marine Biological Laboratory, the Missouri Botanical Garden, and the Biodiversity Heritage Library consortium. EOL's core activities are led by five working groups: Species Sites (led by Cynthia Simms-Parr, SI), Biodiversity Informatics (led by Nathan Wilson, MBL), Scanning and Digitization (led by Tom Garnett, BHL), Education and Outreach (led by Marie Studer, Harvard) and Biodiversity Synthesis (led by Mark Westneat, FM).

The Biodiversity Synthesis Center's mission is to increase the pace of scientific discovery about biodiversity, conservation, and the evolution of life. BioSynC serves as a liaison between the international scientific community and EOL. BioSynC helps to recruit EOL involvement within the scientific community and organizes and hosts "Synthesis Meetings" bringing together experts in systematics, conservation, informatics, and programming to generate data, applications, and visualizations that will promote biodiversity research, education, and conservation.

In 2011, BioSynC hosted eight synthesis meetings, strengthening the scientific profile of EOL and The Field Museum in the international scientific community. To date, synthesis meetings represent the most significant avenue for the internationalization of EOL, involving more than 850 participants from 40 countries. Synthesis meetings produce scientific content for EOL, new software and tools for EOL, scientific publications, and major grant proposals, among other things.

This year, BioSynC staff were awarded more than $130,000 in new grants and contributed to innovative digital learning programs in the Museum, including WhyReef and Conservation Connection. WhyReef (collaboration with FM Education) produced a simulated coral reef in the virtual world Whyville.net and reached more than 150,000 unique users in its target age group: 8-16 year olds. WhyReef teaches kids about marine biodiversity and conservation. Conservation Connection (collaboration with FM Education) uses social media and video production to connect teens in the U.S. and Fiji and educate them about coral reef conservation.

2011 Synthesis Meetings

Meeting 1: S2I2 Scientific Software Innovation Institute funded by NSF.
March 22–24, 2011. This workshop brought together 25 participants from different fields (e.g., museum professionals, librarians, archivists, and industrial engineers) to discuss workflow engineering in natural history collections.

Meeting 2: CBOL Database Analysis Working Group funded by CBOL.
March 25–27, 2011. This workshop brought together 15 participants to discuss multi-locus based identifications for plants and the Barcode of Life Data Portal and establishing more direct linkages to EOL.

Meeting 3: Cybertaxonomy co-sponsored by SPG.
May 31–June 2, 2011 in Chicago, IL. This meeting targeted both already published taxonomic literature (retrospective) and to-be-published taxonomic articles (proactive) in order to extract taxonomic content

(*e.g.*, species descriptions and re-descriptions, diagnoses, and material examined) and automatically provide it to the EOL. Major accomplishments are the tighter integration of initiatives like Plazi (http://www.plazi.org), Pensoft Publisher (http://www.pensoft.net, publisher of *ZooKeys* and *PhytoKeys*), and the EOL. Several journal editors attended the meeting that will now implement some of the cybertaxonomic tools developed primarily by Plazi and Pensoft in order to provide XML-based output of taxonomic content automatically to the EOL. For example, the largest zoological taxonomic journal *Zootaxa*, which has previously not provided any content to cybertaxonomic databases, will make relatively small adjustments to its publishing workflow that will generate lots of content for the EOL in the future. A manuscript describing our visions for the publication of cybertaxonomic articles in diverse journals is currently being written by the participants.

Meeting 4: FishToL: A MegaTree of all Fish Families.
May 23–25, 2011 in Chicago, IL. This workshop aimed to develop a large grafted megatree of all 880 fish families, both fossil and recent. Funded by an NSF Research Coordination Network grant to Guillermo Orti, workshop product will include phylogenetic trees and taxonomic web pages for EOL and ToLWeb for higher level fish taxonomic groups.

Meeting 5: PaleoMap funded by NSF.
July 18–20, 2011 in Chicago, IL. This purpose of the workshop was to discuss the creation of a dynamic internet resource that integrates paleogeographic mapping with online earth science databases. Such a comprehensive description of the plate tectonic, paleogeographic, paleoclimatic, and paleobiological development of the Earth is a fundamental requirement of any attempt to understand the evolution of earth systems and would be widely used by earth science educators at all levels and earth science researchers of nearly every persuasion.

Meeting 6: Carex co-sponsored by SPG.
September 26–30, 2011 in Chicago, IL. This meeting helped to coordinate and compile the regional and global diversity of the angiosperm genus *Carex*. Thirty-three participants from nine countries attended with the goal of producing new curators, species page content, and a data partnership for EOL.

Meeting 7: BivaToL 3 funded by NSF.
October 17–18, 2011 in Chicago, IL. This meeting, the third in a series, facilitated the planning and coordination for the Bivalve Tree of Life group, including the three PIs Rudiger Bieler, Paula Mikkelsen, and Gonzalo Giribet. The project is described at www.bivatol.org/ and aims to catalog and document phylogenetic relationships among the 25,000 species of living clams with upcoming links to EOL species pages.

Meeting 8: Cone snails**.**
October 25–29, 2011 in Chicago, IL. This meeting facilitated the compilation of data and resources on the megadiverse snail genus *Conus*. The meeting produced new curators, species page content, and an upcoming data partnership for EOL.

FIELDIANA, 2011

Fieldiana is a peer-reviewed monographic series published by the Field Museum of Natural History. *Fieldiana* focuses on mid-length monographs and scientific papers pertaining to collections and research at Field Museum. The two series pertain to subject matter in the fields of Anthropology and Botany, Geology, and Zoology. Curators, research associates, full-time scientific support staff, full-time paid postdoctoral fellows, graduate students of Field Museum curators, and fellowship awardees may submit manuscripts for publication in *Fieldiana*.

This year, *Fieldiana* published 4 volumes in our 8.5 by 11 inch format with a total of 957 pages, a recent record, being nearly 600 pages over last year's total. The editorial staff was led by Janet Voight in her second year as Managing Scientific Editor, supported by Jonathan Haas and Gary Feinman as co-Associate Editors of *Fieldiana Anthropology* and, as Associate Editors for *Fieldiana Life and Earth Sciences*, Thorsten Lumbsch serving for Botany, Olivier Rieppel for Geology and Margaret Thayer for Zoology.

Retirement of Editorial Assistant Chris Jones was offset by hiring Library Technical Assistant Michael Trombley in this position. Sharing Michael with the Library highlights the shift in Editorial Assistant duties to one primarily focused on managing journal distribution and an overall deepening of the relationship between Fieldiana and the Library. Librarian Christine Giannoni provides critical insight to the *Fieldiana* Editorial Board and we share part of the revenue *Fieldiana* earns through its electronic distribution via BioOne with the Library. In addition because The Field Museum is a publisher on BioOne, the library receives a discount for museum access to this online resource.

Fieldiana also continues to expand its use of electronic media. Both *Fieldiana Life and Earth Sciences* and *Fieldiana Anthropology* are available on BioOne (http://www.bioone.org/action/showPublisher?code=fmnh); *Fieldiana Anthropology* debuted on JSTOR (http://www.jstor.org/action/showPublication?journalCode=fieldianaanthro) in November. JSTOR, like BioOne offers online access to institutions, and soon to individuals, of the journals it archives. JSTOR being familiar to the Anthropology audience will increase the visibility of the journal. Work is underway to include our other anthropological publications on JStor. As part of the redevelopment of The Field Museum web page, the *Fieldiana* web site was updated and all our publications are listed. In addition, we offer a link to BioOne.

Fieldiana: Life and Earth Sciences

Heaney, L. R. (2011). Discovering diversity: studies of the mammals of Luzon Island, Philippines. Vol. 2. Publication No. 1558. 102 pp.

Hilton, E. J., Grande, L. and Bemis, W. E. Skeletal anatomy of the Shortnose Sturgeon, *Acipenser brevirostrum* Lesueur, 1818, and the systematics of Sturgeons (Acipenseriformes, Acipenseridae). Vol. 3. Publication No. 1560. 163 pp.

Stanley, W. T. (2011). Studies of montane vertebrates of Tanzania. Vol. 4. Publication Number 1561. 116 pp.

Fieldiana: Anthropology

Terrell, J. E. and E. M. Schechter (2011). Exploring prehistory on the Sepik Coast of Papua New Guinea. Vol. 42. Publication No. 1559. 576 pp.

LIBRARY, 2011

The mission of The Field Museum Library is to build, organize and maintain for use the research collections essential to the Museum's scientific, educational and exhibition programs. Since its creation in 1894 at the Museum's founding, the Library's holdings have grown to incorporate additional volumes of books and journals in the main library, as well as the special collections of the museum archives, photo archives and the rare book room. The strengths of the Library collections closely parallel the strengths of the Museum's scientific collections in the fields of Anthropology, Botany, Geology, Paleontology and Zoology.

Even with the reduction in service hours for 2011, the Library staff continued to provide excellent service to the Museum's staff and research associates, volunteers, interns, and visiting researchers. The Library's Reading Room is open Tuesday–Friday, 1–4 pm.

The continuous development of the Library collections requires the acquisition of research materials from all parts of the world. Books are purchased through specialized suppliers on several continents or acquired directly from publishers in scores of countries. Serial publications, the backbone of any scientific library, account for two thirds of the Library's holdings in some subject areas. In late 2011, the Library began subscribing to the BioOne electronic journal collection. BioOne is a global, not-for-profit collaboration bringing together scientific societies, publishers, and libraries to provide access to critical, peer-reviewed research in the biological, ecological, and environmental sciences. Subscribing to this collection will improve the behind-the-scenes management of electronic publications while increasing the number of publications available for research.

While the Library subscribes to 278 domestic and foreign journals, the principal means of acquiring foreign journals remains our exchange program through which the Library receives over 1,000 serials and monographs from museums, societies, academies, and other organizations worldwide. Exchange partners receive in return one or more of the Museum's Fieldiana scientific series, *Fieldiana: Anthropology* or *Fieldiana: Life and Earth Sciences.*

The Library has, since 2005, been undertaking the process of converting our paper card catalog into electronic records. In 2011, the cataloger completed two of the seven total boxes of card records from the rare book collections and completed cataloging of the Edward Ayer ornithological collections. As part of a project to evaluate a backlog of uncatalogued materials, staff reviewed 492 titles, of which 389 were cataloged and added to the collections.

In 2007, The Field Museum Library joined as a participating member of the Biodiversity Heritage Library (BHL), the digitization component of the Encyclopedia of Life. The Library continues to make important contributions to this initiative. Books were digitized through a partnership with the National Museum of Natural History as well as via a successful proposal submitted to The Field Museum's Africa Council.
The Library Photo Archives continued to fulfill both "in-house" and external requests for images for use in exhibitions, publications and notably, the new book, *The Field Museum* by Cheryl Bardoe, which utilized over 150 spectacular images from the photo collection. At the same time, digitization activities continued in the Photo Archives with over 2,000 film negatives being scanned, catalogued and digitally conserved in 2011. The original negatives have been re-housed in acid-free enclosures and placed in a climate controlled collections space.

The Museum Archives, which functions as the official repository of much of the Museum's historical records and documents, continued to support the research needs of staff and external researchers. The Archives received over 129 linear feet of new material in 2011, including the records of the Chicago Wilderness Project, the Education Department, and selected papers of Curator Alaka Wali's work in Panama and Harlem.

Library staff continue to be active in supporting student activities, from hosting Library Science and History interns to granting interviews and providing tours. Both interns and volunteers play an important role in Library activities, assisting in cataloging, circulation and digitization projects.

PRITZKER LABORATORY FOR MOLECULAR SYSTEMATICS AND EVOLUTION, 2011

The Pritzker Laboratory for Molecular Systematics and Evolution was named in recognition of generous support from The Pritzker Foundation. The Pritzker Lab is a Field Museum multi-user core facility whose mission is the collection and analysis of genetic data. The majority of the data collected are DNA sequences. The main sources of specimens used in the laboratory are the frozen tissue collections of The Field Museum's Zoology and Botany Departments, although herbarium and traditional museum skins are also used. DNA sequence data are desirable for many reasons in evolutionary studies. Chief among these is the fact that DNA sequences are composed of only four nucleotide bases, resulting in data that are, in some analytical respects, very simple. Another extremely useful property of DNA sequence data is the high level of comparability across species and across studies. Together, these properties mean that DNA sequence data can be used to investigate diverse questions at all levels in the biological hierarchy: questions about individuals, populations, species, and even phyla and kingdoms.

In addition to DNA sequence data, the lab had several ongoing projects employing fragment analysis. For example, microsatellite DNA data are being used to examine mating system of sand tiger sharks, the evolution of brood parasitism in cowbirds, and the population genetics of winter flounder off of New York.

The primary activity of lab users is the collection and analysis of genetic data for inferring the evolutionary, or phylogenetic, relationships among species. This knowledge of phylogenetic relationships is fundamental to understanding organismal evolution and the origins of biological diversity. Patterns of phylogenetic relationships among species can be used to trace evolutionary changes and provide insights to the biological and geological histories of geographic regions. Another focus of lab research involves characterizing the amount of genetic variation within and among populations. These data can be used to help guide conservation efforts, and to study the processes driving evolution, such as mate choice.

The majority of lab users are Field Museum curators, their graduate students from the University of Chicago and the University of Illinois at Chicago, and their post-doctoral researchers. As it does every year, the lab had many international visitors in 2011. This year, we had visitors from Brazil, Sri Lanka, India, and China. Each of these visitors was trained the proper methods for collecting genetic data for their various projects. In 2011, we trained 54 national and international scientists to collect genetic data on a wide variety of organisms including sharks, flies, plants, toucans, venomous fish, bats, malaria, tropical birds, winter flounder, lichens, fungi, and ants. The many areas of inquiry pursued by these researchers include coevolution of parasites and hosts, the evolution of life history traits, rates of evolutionary change, biogeography, conservation, sexual selection, speciation, and natural selection at the molecular level. More than 50 new and continuing projects used the DNA sequencing facilities in 2011.

This past year was the third full year that our exhibit, the Daniel F. and Ada L. Rice *DNA Discovery Center*, was open to the public. This exhibit puts a public face on the Pritzker lab. In the exhibit space, visitors have an opportunity to witness DNA research in action and speak directly with scientists about their work in our "Talk to the Scientist Hour." In addition, visitors can explore hands-on interactives, videos, and engaging displays that provide information on the basics of DNA and offer a behind-the-scenes look at the incredible diversity of the Museum's collections. In conjunction with this exhibit, the Education Department and Pritzker Lab collaborated this past summer for the third annual DNA residency program. This program brought four high school students and two high school biology teachers into the museum's Pritzker Lab for a six-week course. As part of this course, they were trained in genetic techniques, including DNA extraction, polymerase chain reaction (PCR), and DNA sequencing. One group collected data for Dr. Shannon Hackett's emerging pathogens project, while the other group collected data for Dr. Kevin Feldheim's great white shark population genetic study.

The Pritzker Lab is a non-departmental unit of Collections and Research supervised by a Management Committee. It is available for use by the curators and staff members of the Museum, their collaborators and students. All users of the lab are responsible for designing, performing and financing their own lab work. We welcome additional collaborations with new institutions and researchers. For more information on specific research projects, please see the web pages of the Pritzker Lab: http://fieldmuseum.org/explore/department/pritzkerlab; or the individual pages of committee that manages the facility: John Bates (Zoology); Thorsten Lumbsch (Botany); Shannon Hackett (Zoology); Rick Ree (Botany); Leo Smith (Zoology); Corrie Moreau (Zoology); and Kevin Feldheim (Pritzker Lab).

SCANNING ELECTRON MICROSCOPE LABORATORY, 2011

The Field Museum's two scanning electron microscopes (SEMs) are invaluable research tools for examining fine surface details of three-dimensional objects and specimens from the museum's collections. The capability of viewing objects at very low magnifications as well as high magnifications (over 100,000 times life-size) is one of the special features of our SEMs. Images obtained from the scanning electron microscope achieve higher resolution and higher magnification than those observed with light microscopy, and the SEM images also provide 300 times more depth-of-field than those obtained with conventional light microscopy.

In addition to imaging, the variable pressure LEO (Carl Zeiss) EVO Scanning Electron Microscope, is equipped with an Oxford Instruments INCA Energy Dispersive Spectroscopy (EDS) system that performs nondestructive major and minor elemental analysis of a variety of objects. This SEM was installed in April 2004 and has an extra large chamber for viewing sizeable specimens and objects. The LEO (Zeiss) SEM with the Oxford EDS was generously funded by an anonymous donor and is part of the museum's Elemental Analysis Facility.

The SEM Lab also has an Amray 1810 SEM that has been upgraded with a PC having a digital imaging capturing system. The Amray SEM is an excellent tool for very low magnification in addition to high magnification work, examination without destructive methods (e.g. uncoated specimens), and a large range of specimen movement and positioning. Specimen preparation instruments include a Denton Vacuum Desk IV Sputter Coater for coating non-conductive specimens with a thin layer of gold and a Balzers Critical Point Dryer for drying soft tissue.

The SEM Laboratory is a multi-user research facility used by researchers and students in The Field Museum's Departments of Anthropology, Botany, Geology, and Zoology. The laboratory is managed by Betty Strack. Twenty-eight curators, graduate students (mostly from the University of Chicago and the University of Illinois at Chicago), undergraduate interns, professional staff, research associates, and international visiting/collaborating scientists from Collections and Research used the SEMs in 2011. The staff, students, and collaborating scientists that had research projects include: Asna Ansari, Rüdiger Bieler, J.P. Brown, Dave Clarke, Judith Eger, Terry Gates, Ian Glasspool, Rosemary Golding, Gerald Grellet-Tinner, Lori Grove, Larry Heaney, Philipp Heck, Nancy Hensold, Patrick Herendeen, Nan Liu, Colleen Michael, Andria Niedzielski, Jonathan Plotner, André Sartori, Petra Sierwald, Sid Staubach, Reto Trappilsch, Bill Turnbull, Janet Voight, Matt von Konrat, Alexandra Westrich, Hannah Wirtshafter, and Lindsay Zanno.

In 2011, the SEM continues to be an important component of many new and continuing research projects. Topics of these projects and specimens/objects studied include:

- Examination of presolar grains, stardust, and extraterrestrial minerals
- Characterization of pigments from Papua New Guinea objects
- Examinations of fossil and extant plants
- Morphology of bivalves and gastropods
- Examination of octopus suckers
- Millipede morphology atlas
- Morphology of rove beetles
- Microfauna fossils from SUE quarry
- Fossil and extant small mammal teeth and skulls
- Philippines mammal teeth
- Australian rodent teeth

SCHOLARSHIP COMMITTEE, 2011

The Field Museum Scholarship Committee supports professional scientists and students who wish to work with the Museum's collections or collaborate with its researchers. The Scholarship Committee administers eight separate awards, including graduate fellowships, visiting scientist grants, scholarships for early-career scientists, undergraduate scholarships and high school scholarships.

During 2011 the Scholarship Committee awarded 17 scholarships, three fellowships, eight REU (Research Experiences for Undergraduates) internships and seven high school internships in all four Collections and Research departments.

Visiting scientists and students came from around the globe, including Argentina, Brazil, Canada, Costa Rica, Egypt, India and Peru as well as the U.S.

The Scholarship Committee is currently chaired by Associate Curator Petra Sierwald (Zoology/Insects). Collections Assistant Stephanie Ware (Zoology/Insects) serves as Committee Secretary.

Scholarships, Fellowships, and Internships Awarded in 2011

Lester Armour Family Graduate Fellowship (for outstanding graduate students to pursue advanced studies in one of the scientific departments at the museum): Deren Eaton.

Brown Family Graduate Fellowship Endowment (for University of Chicago students of superior academic merit who are citizens of the U.S. and whose work requires a Museum curator to be on his/her Ph.D. committee): Matthew Nelsen.

Women's Board "Women In Science" Fellowship (for exceptional women Ph.D. candidates in the natural sciences): Rebecca Dikow.

Thomas J. Dee scholars (for research and academic fellowships with priority given to younger, less established research workers): Chenyang Cai, Alex Figueroa, Paul Gignac, Justin Grubich, Vinayaka Kanivebagilu, Sandra Velazco and Laurie Webster.

The Borg-Warner Robert O. Bass Visiting Scientist scholars (research opportunities for distinguished national and foreign scientists to use our collections and library holdings): Pierre-Paul Bitton, Kristin Sara Brink, Matthew Joseph Dufort, Alex Hubbe, Jennifer Phillips and Luis Sandoval Vargas.

Karl P. Schmidt scholars (for the training of young scientists who desire to study at The Field Museum): Lucja Fostowicz, Jessica Hawthorne, Valentina Segura Gago and Barbara Soledad Vera.

Research Experiences for Undergraduates (educational opportunity for students in the biological sciences to interact with scientists dedicated to the study of organic diversity): Katherine Anderson, Warren Chatwin, Elizabeth Everman, Graham Haviland, William Montag, Gregor-Fausto Siegmund, Stephanie Smith and Hannah Wirtshafter.

Undergraduate Internships (work experience whereby an undergraduate or recent graduate gains hands-on training in his/her field of expertise for one or more semesters): Lauren Hennelly.

High School Internships: Gina Charles, Jacqueline Fuentes, Stephanie Garcia, Jasmia Hamilton, Samuel Simon and Cristina Vera.

IN MEMORIUM, 2011

William D. Turnbull

On October 5, 2011 The Field Museum lost a lifetime pillar of its foundation in science with the passing of Curator Emeritus William D. Turnbull who died following a short illness.

Born in 1922 in Milwaukee, Bill attended the University of Wisconsin, Milwaukee and graduated in 1942. After serving in the Army during WWII, Bill joined The Field Museum as a fossil vertebrate preparator in 1946. Bill earned his Ph.D. degree in Paleozoology from the University of Chicago while working at the Museum, and ascended to the post of Assistant Curator of Fossil Mammals in 1956. He was promoted to Associate Curator in 1963, and again to Curator in 1973. He also held lecturer status at the University of Chicago and University of Indiana at South Bend, and was a research associate at the University Texas at Austin and the Western Australian Museum. He served the Society of Vertebrate Paleontology as Vice-President from 1975–1976 and as President from 1976–1977. Bill retired in 1987, but continued to come to work daily as long as weather and health permitted.

Bill was an avid field paleontologist and his collecting efforts ranged widely in the US from the south to the western states, as well as farther afield in Australia. He made significant contributions to the Museum's collections, and his collections of Eocene mammals from the Washakie Basin are spectacular. Several of Bill's most spectacular finds are on display in *Evolving Planet*, including the mosasaur *Globidens*, the turtle *Naomichelys*, and the aïstopod amphibian *Pseudophlegethontia turnbullorum* named in honor of Bill and his first wife, Priscilla. Bill's scholarly publications ranged widely, covering topics such as jaw mechanics of archaic Mesozoic mammals, descriptions of marsupial and rodent faunas of the Australian late Neogene, to Pleistocene mammals of the Midwest. Bill was working on manuscripts on the remarkable Eocene finds he had made in the Washakie Basin in Wyoming, the mammalian fauna from the Madura Cave in Western Australia, and on the history of the department, when he fell ill.

During his long tenure at the Museum, Bill interacted with generations of scientists, ranging from Elmer Riggs, the first vertebrate paleontologist in the Museum's history, to the current cohort of curators. He collaborated with colleagues from across the globe. He will be remembered as a dedicated professional, a wonderful citizen to the department and the institution, and as a warm and caring family man. Bill is survived by his wife Hedy, his stepdaughter Eve Band and her husband Steve and their two daughters; his granddaughter Lindsey Goodwin; his stepson Harry Brotman and his two daughters; his brother Alan Turnbull, sister Jane Przedpelski, and their spouses and children.

Bill's legacy lives on in innumerable ways, including in the many specimens and scholarly contributions with which he enriched our exhibits and science, and in the memories we all have of his life as a Museum scientist.

M. Kenneth Starr

It is with great sadness that The Field Museum marked the passing of former Anthropology Curator M Kenneth Starr. Kenneth passed away on December 4, 2011 in Bloomfield, CT, of complications from lymphoma. Ken was born in Libertytown, MD, in 1922. He met his wife Betty Jane Leslie during World War II when he was in the U.S. Navy and learning Japanese at the University of Colorado. He graduated from Duke University in 1945 and earned a Master's degree from Yale in 1947 before sailing to China where he taught history and Chinese at the Tsingtao American School for two years. Ken returned to the US and completed his doctorate in Asian Archaeology at Yale in 1953.

He joined The Field Museum in 1953 as curator of Asiatic archaeology and ethnology. During his time in Chicago, he also taught East and South Asian prehistory as an adjunct professor in the anthropology department at the University of Chicago. Starr published extensively on the Museum's collection of Chinese rubbings. Publications included more than fifty articles and reviews relating to Chinese rubbings, Asian anthropology and archeology, and museum studies. His book on the topic, *Black Tigers: A Grammar of Chinese Rubbings*, was published in 2008 by the *University of Washington Press*. In 1970, he joined the Milwaukee Public Museum as director, a post he held until 1987.

He was active in professional museum organizations, serving as chair of the board of the American Association of Museums and member of the Accreditation Commission, Ethics Task Force, Commission on Museums for a New Century, and Museum Assessment Program. He also served as president of the Association of Science Museum Directors, board member of the Association of Science-Technology Centers, and president of the Midwest Museums Conference. He received the AAM Distinguished Service to Museums Award.

Survivors include his wife of 69 years Betty Leslie Starr; his daughter, Leslie Gray Starr, and son-in-law, Mark A. Dubois; and his cousin Harriet Shorts, her husband, Donald Shorts. His son, Maurice Winfield Starr, a Navy pilot, died in an air accident in 1988.

Phil Lewis

On December 10, 2011 The Field Museum and the Anthropolgy community lost Curator Emeritus Phillip Harold Lewis. He was born in Chicago, on July 31, 1922, and attended Lane Technical High School, graduating in 1940. He served in the Army Air Force in Alaska during World War II, and later graduated from the Art Institute of Chicago. He earned a Ph.D. in Anthropology from the University of Chicago. He joined The Field Museum as assistant curator for primitive art in 1957. He was promoted to associate curator in 1960 and to curator in 1961. He served as department chair from 1975 to 1979, and retired in 1992 after a 35-year career at the museum. He continued as Curator Emeritus until his death.

His area of study was Melanesian culture and art, and he traveled to New Ireland on three different occasions to do extensive fieldwork. While there, he collected hundreds of items, many of which are still on exhibit at the museum. Phil served concurrently with many of the Anthropology curators. He will be remembered as a kind and gentle man, a skilled photographer and artist.

Survivors include his son David Lewis; daughters Betty Lewis and Emily Lewis Mantell; sister Judy Natkin; two grandchildren, Sonia Mantell and Evan Lewis; two son-in-laws, Paul Zafer and Matt Mantell and daughter-in-law, Linda Cruciani. He is also survived by his sister-in-law, Gladys Garabedian. His beloved wife, anthropologist Sally Rappaport, to whom he was devoted for over 50 years, preceded him in death in 2003. Phil will be greatly missed.